AD0004083C3

Service Manual

Tuner/Amplifier

SA-EH760

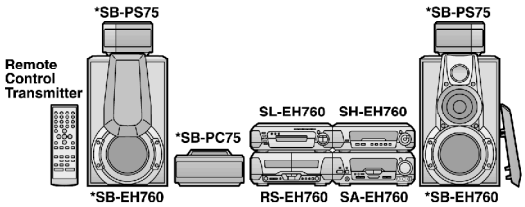
Colour

(S).....Silver Type

Areas

(GC).....Asia, Latin America, Middle Near East and Africa.

(GN).....Oceania.



SPECIFICATIONS

System	SC-EH760
Sound Processor	SH-EH760
Tuner/Amplifier	**SA-EH760**
CD Changer	SL-EH760
Cassette Deck	RS-EH760
Front Speakers*	SB-EH760
Center Speaker*	SB-PC75
Surround Speakers*	SB-PS75

* : Made in Spain.

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

Specifications

Amplifier section

Power output (L/R both channel driven):

Stereo mode;

DIN	10 kHz, THD 1 % (High)	2 × 20 W (6 Ω)
	1 kHz, THD 1 % (Mid)	2 × 20 W (6 Ω)
	100 Hz, THD 1 % (Low)	2 × 50 W (8 Ω)
RMS	10 kHz, THD 10 % (High)	2 × 30 W (6 Ω)
	1 kHz, THD 10 % (Mid)	2 × 30 W (6 Ω)
	100 Hz, THD 10 % (Low)	2 × 70 W (8 Ω)

PRO LOGIC mode:

DIN	FRONT	1 kHz, THD 1 % /TTL Imp. (High/Mid);	2 × 20 W (6 Ω)
		100 Hz, THD 1 % (Low);	2 × 50 W (8 Ω)
	SURROUND	1 kHz, THD 1 %;	2 × 20 W (8 Ω)
	CENTER	1 kHz, THD 1 %;	50 W (8 Ω)
RMS	FRONT	1 kHz, THD 10 % /TTL Imp. (High/Mid);	2 × 30 W (6 Ω)
		100 Hz, THD 10 % (Low);	2 × 70 W (8 Ω)
	SURROUND	1 kHz, THD 10%;	2 × 30 W (8 Ω)
	CENTER	1 kHz, THD 10 %;	70 W (8 Ω)

PMPO 1 kHz: 3,000 W (High or Mid 6 Ω, Low, CENT., SURR. 8 Ω)

Total harmonic distortion:

Rated power at 1 kHz;	1 % (6 Ω)
Half power at 1 kHz;	0.1 % (6 Ω)

Load impedance:

FRONT (High/Mid);	total impedance 6 Ω
(Low);	8 Ω
SURROUND;	8 Ω
CENTER;	8 Ω

S.WOOFER:

Center frequency;	70 Hz
LEVEL (VOL–20 dB):	MID +8 dB, MAX +12 dB

FM tuner section

Frequency range:	87.50 – 108.00 MHz (0.05 MHz steps)
Sensitivity:	1.8 µV (IHF usable)
S/N 26 dB;	1.5 µV
S/N (MONO):	70 dB (75 dB, IHF)
Antenna terminal(s):	75 Ω (unbalanced)

AM tuner section

Frequency range:	522 – 1629 kHz (9 kHz steps)
	520 – 1630 kHz (10 kHz steps)
Sensitivity (S/N 20 dB):	500 µV/m

Timer section

Clock:	Quartz - lock type
Function:	Play timer (1 time, daily), Rec timer (1 time, daily), Sleep (120 min, 30 min intervals)
Setting intervals (Play/Rec):	1 minute – 23 hours 59 minutes (1 min intervals)

General

Power supply:	
(GC) area;	AC 110/127/220 – 230/240 V, 50/60 Hz
(GN) area;	AC 230 – 240 V, 50 Hz
Power consumption:	205 W
Standby;	
Normal mode	11 W
ECO mode	
(GC) area	1.0 W
(GN) area	0.5 W
Dimensions (W×H×D):	293×118.5×346 mm
Mass:	
(GC) area;	5.4 kg
(GN) area;	5.3 kg

Notes: Specifications are subject to change without notice.
Mass and dimensions are approximate.
Total harmonic distortion is measured by the digital spectrum analyzer.

Technics®

1. Before Repairs

1. Turn off the power supply. Using a 10 Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C703 and C702, C704) in order to discharge the voltage.
2. Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz in NO SIGNAL mode should be shown below.

For (GC) area

Power supply voltage	AC 110 V, 50 Hz	AC 240 V, 50 Hz
Consumed current	200-700 mA	100-350 mA

For (GN) area

Power supply voltage	AC 240 V, 50 Hz
Consumed current	100-350 mA

2. Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.

- Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are shorted, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedures outlined below.

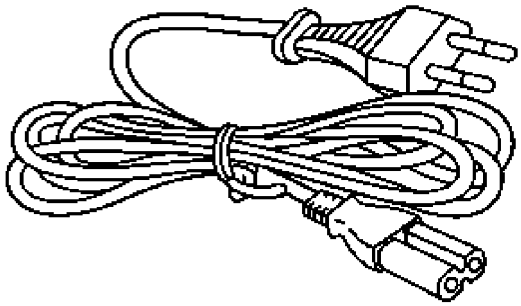
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

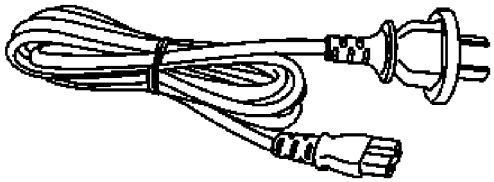
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

3. Accessories

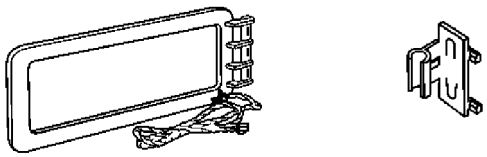
- AC power supply cord for (GC) area / (RJA0019-X).....1 pc.



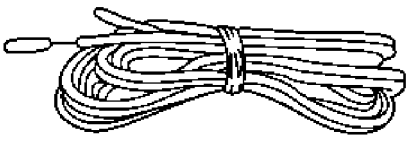
- AC power supply cord for (GN) area / (RJA0035-X).....1 pc.



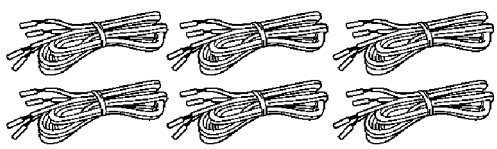
- AM loop antenna set / (RSA0022-J).....1 pc.



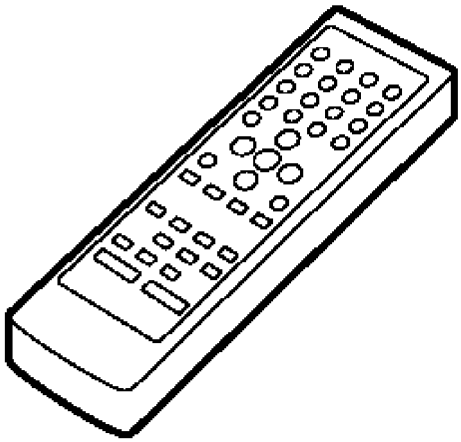
- FM indoor antenna / (RSA0006-J).....1 pc.



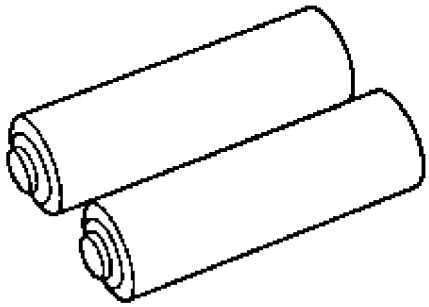
- Speaker cords / (REE0393).....2 pcs. / (REE0984).....2 pcs. / (REE0985).....2 pcs.



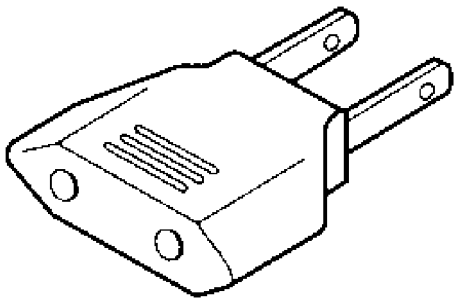
- Remote control transmitter / (RAK-EHA28WH).....1 pc.



- Remote control batteries / (R6/LR6, “AA”, UM-3).....2 pcs.
Note: These are available on sales route.



- Power plug adaptor for (GC) area only / (SJP5213-2).....1 pc.



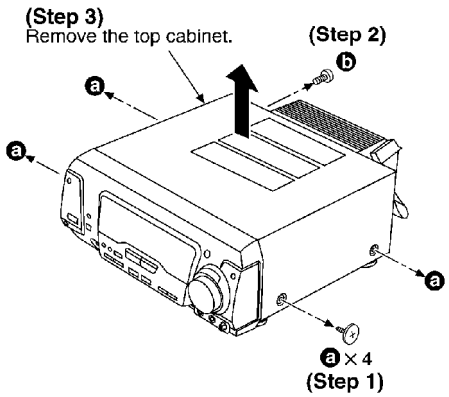
4. Location of Controls

5. Operation Checks and Component Replacement Procedures

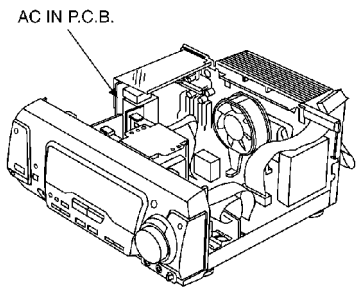
- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

/

5.1. Checking for the AC IN P.C.B.

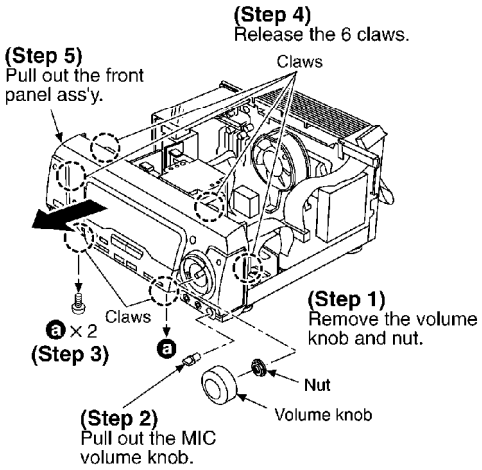


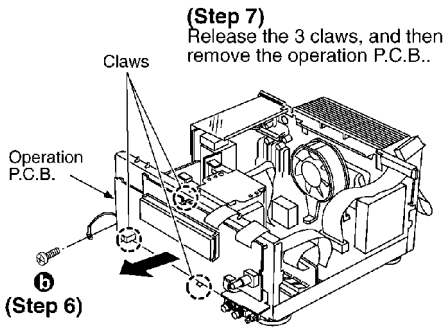
- Check the AC IN P.C.B. as shown below.



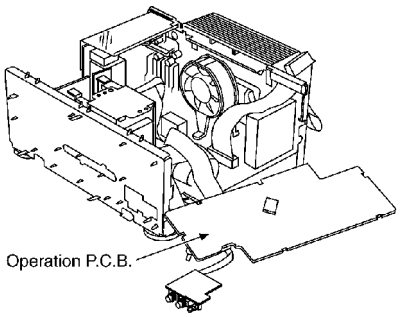
5.2. Checking for the operation P.C.B.

- Follow the (Step 1) - (Step 3) of item 5.1.





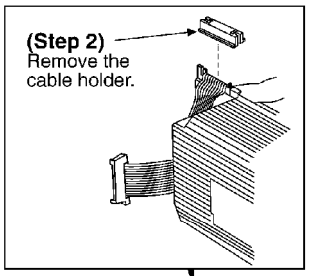
- Check the operation P.C.B. as shown below.

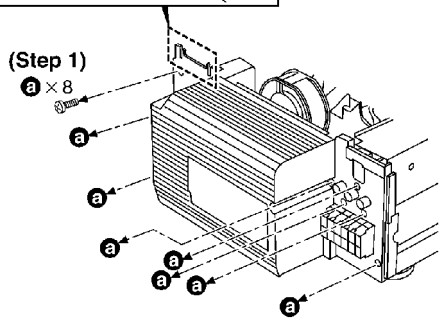


5.3. Checking for the main P.C.B.

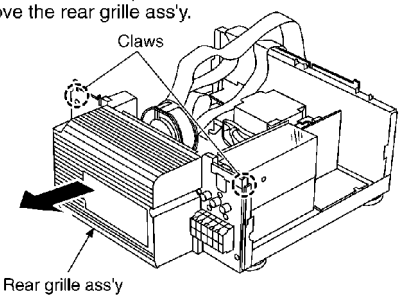
- Follow the (Step 1) - (Step 3) of item 5.1.

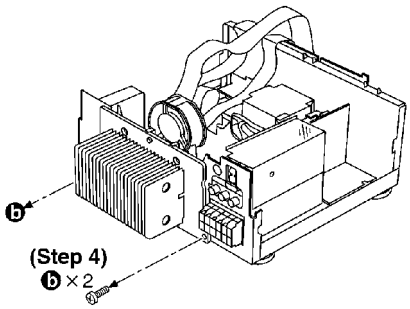
- Follow the (Step 1) - (Step 7) of item 5.2.

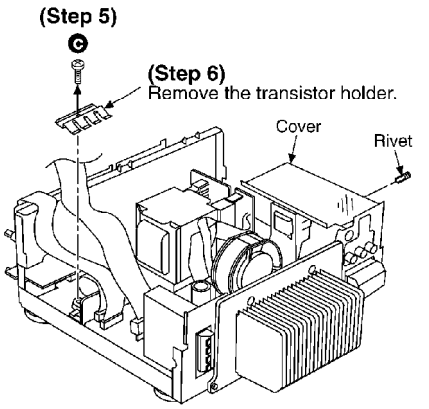




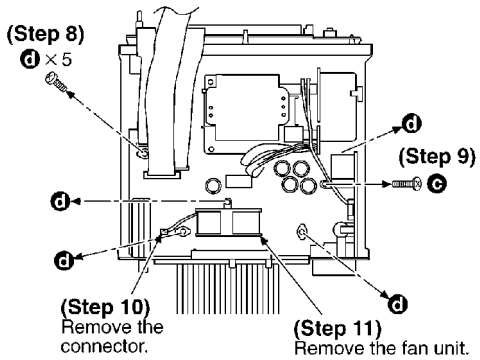
(Step 3)
Release the 2 claws, and then remove the rear grille ass'y.

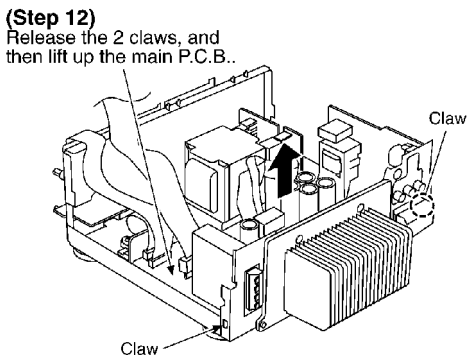




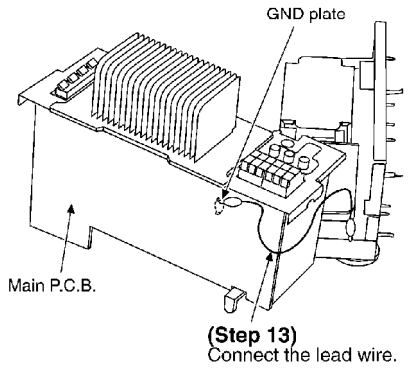


(Step 7)
Remove the rivet, and then remove the cover.



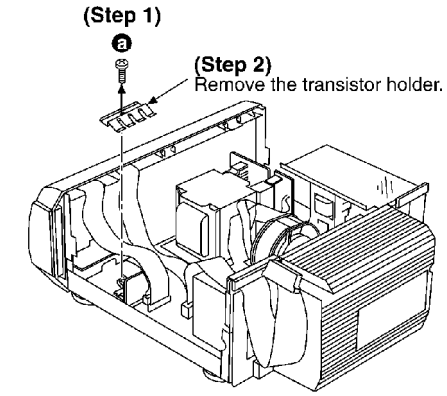


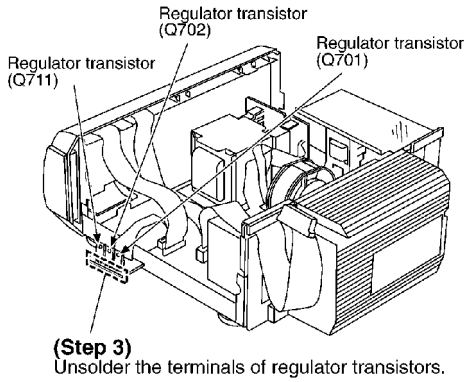
- Check the main P.C.B. as shown below.



5.4. Replacement for the regulator transistor

- Follow the (Step 1) - (Step 3) of item 5.1.



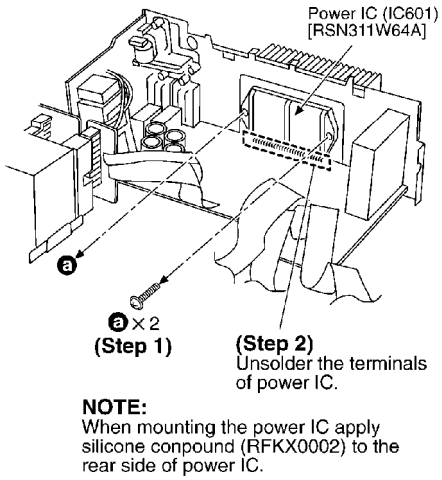


5.5. Replacement for the power IC

- Follow the (Step 1) - (Step 3) of item 5.1.

- Follow the (Step 1) - (Step 7) of item 5.2.

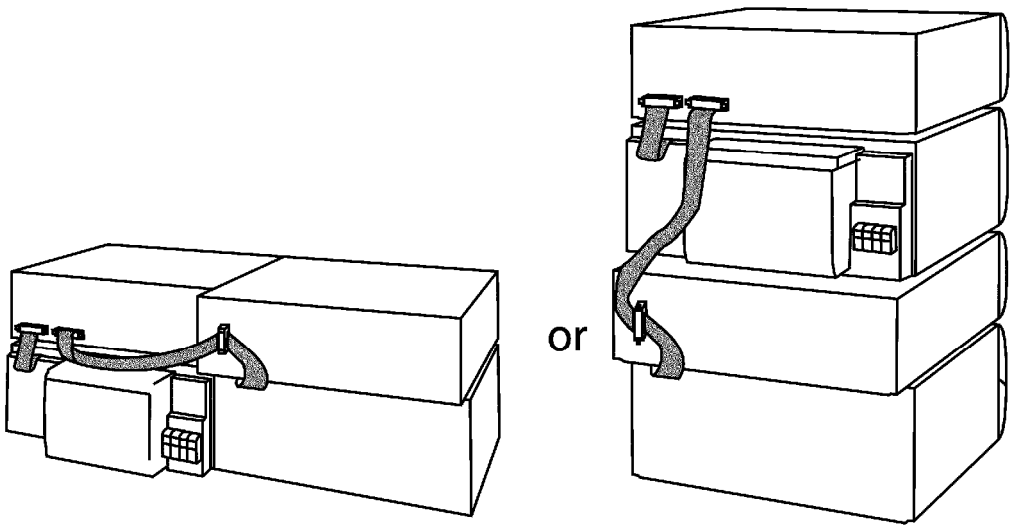
- Follow the (Step 1) - (Step 12) of item 5.3.



6. To Supply Power Source

This unit SA-EH760 is designed to operate on power supplied form system connected. / For system connections, refer to Fig. 6-1.

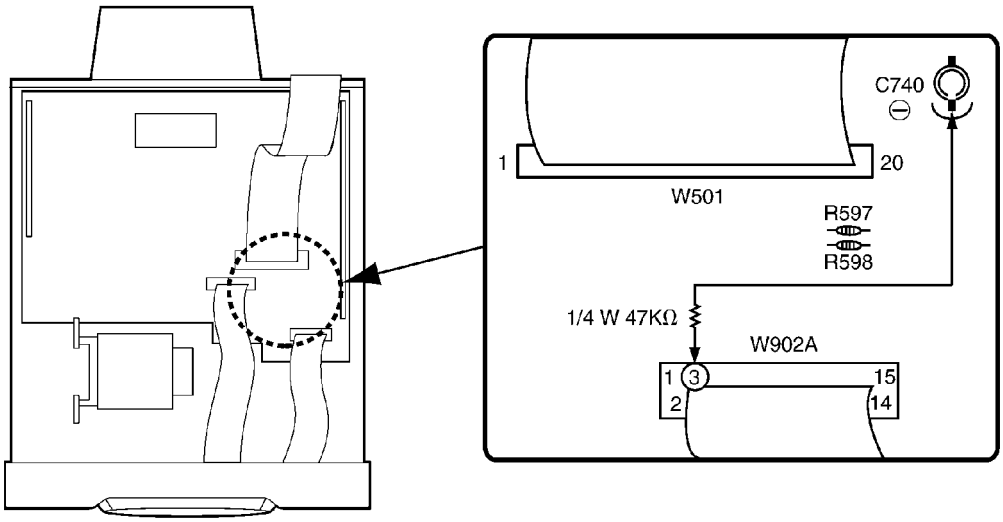
Fig. 6-1.



When the unit SA-EH760 has to test and service alone, use the following method to supply power source.

1. **Short the section between W902A Pin 3 and C740 (-) (GND). Refer to Fig. 6-2.**
2. **Connect this unit to an AC power supply cord. / (This unit come to stand-by mode.)**
3. **Turn the unit ON.**

Fig. 6-2.



Notes:

Use only this method when checking the voltage etc.. / In case of checking operations, use the system connections to supply power source.

7. Self-Diagnostic Function

This unit is equipped with a self-diagnostic function which, in the event of a malfunction, automatically displays a code indicating the nature of the malfunction.
Use this self-diagnostic function when servicing the unit.

7.1. To display the malfunction code

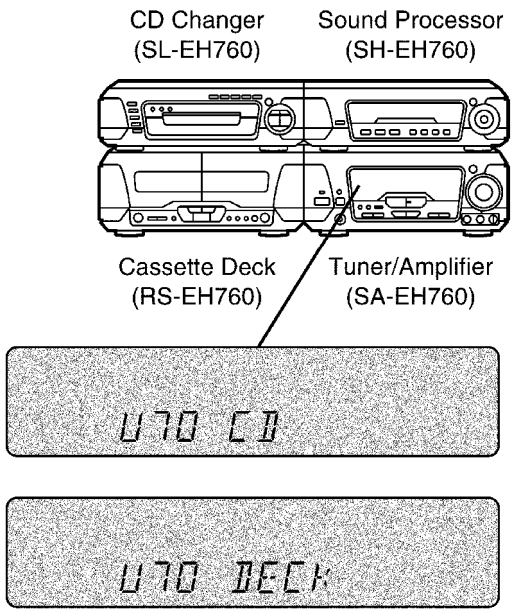
U70 CD: / U70 DECK:

Automatically displays on the tuner/amplifier when a malfunction occurs. Refer to Fig. 7-1.

F61:

Automatically displays on the tuner/amplifier when a malfunction occurs. Refer to Fig. 7-1.

Fig. 7-1.



7.2. To return to the normal display

1. For U70 CD/U70 DECK

- **Press an any operation button on the tuner/amplifier.**
- **To re-display the code, switch the power off (POWER STANDBY button), and then switch power back on again.**

2. For F61

- **If F61 is displayed, the power will automatically be switched off and the standby indicator will light up.**
- **F61 will be displayed for 3 seconds, and then the clock will be displayed.**
- **To re-display the code, switch the power on. F61 will be re-displayed, and then after 3 seconds the clock will be displayed and the power will automatically switch off.**

7.3. Display contents

7.3.1. U70 CD/U70 DECK / (displayed automatically)

- Problem or condition

A bus-line communications error has occurred as a result of the flat cables being inserted incorrectly, thus preventing the system from operating.

- If U70 is displayed on the tuner/amplifier, the tape deck or CD Changer cannot be operated by remote control.

- Correction Procedure

1. To check for correct insertion of the flat cables.

- Insert each connector until you hear a click.

- Insert the flat cables at the back of the unit in the order indicated. Refer to Fig. 7-2.

Make sure the white side of the cables is on your right side. Refer to Fig. 7-3.

Fig. 7-2.

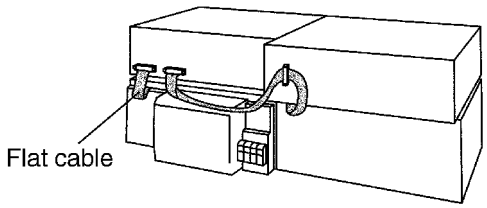
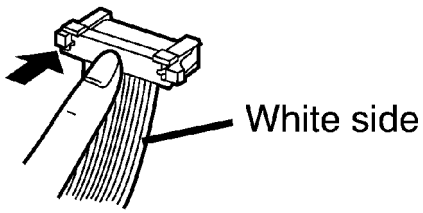


Fig. 7-3.



2. Breakage of the flat cables. (Check and replace.)

3. If the problem is not corrected by items 1 and 2 above, this indicates a faulty IC.

SA-EH760:

IC901 (LC8A524A5N28)

SL-EH760:

IC451 (M38504M6200F)

RS-EH760:

IC701 (M38503M2400F)

Check these ICs and replace.

7.3.2. F61

- Problem or condition

When the power switch is switched on, it automatically switches back off, making it impossible to switch power on.

- Correction procedure

Faulty Tuner/Amplifier (SA-EH760) output IC (IC601). (When a DC

voltage is applied to speaker terminals.)

8. Type Illustration of ICs, Transistors and Diodes

9. Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S701:

Voltage selector switch (VOLT ADJ) / (GC) area only

S901:

Power Standby/on switch (/I)

S902:

ECO mode switch (MODE)

S903:

Clock/timer, demo switch / (CLOCK/TIMER, DEMO)

S904:

Play timer/record timer switch / (PLAY/ REC)

S905:

FM mode switch / (FM AUTO/MONO)

S906:

Tuning mode switch / (TUNING MODE)

S907:

Set switch (SET)

S908:

Source input switch / (INPUT SELECTOR)

S909:

6 ch discrete input switch / (6 CH DISCRETE INPUT)

S910:

Tuning down switch (TUNING,)

S911:

Tuning up switch (TUNING,)

S912:

Tuner/band switch (TUNER/BAND)

S913:

Digital super woofer switch / (DIGITAL S.WOOFER)

S914:

KARAOKE switch (KARAOKE)

S915:

Echo switch (ECHO)

VR401:

Microphone volume control VR / (MIC VOL)

VR901:

Volume control VR (VOLUME)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

No mark

: Power ON (FM or AM)

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

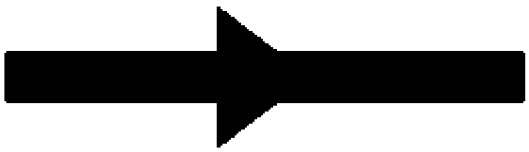
When replacing any of components, be sure to use only

manufacturer´s specified parts shown in the parts list.

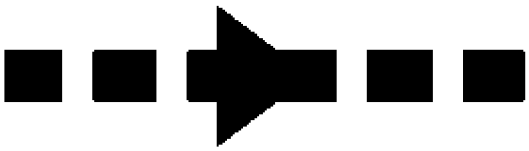
- Caution!

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

- Voltage and signal line



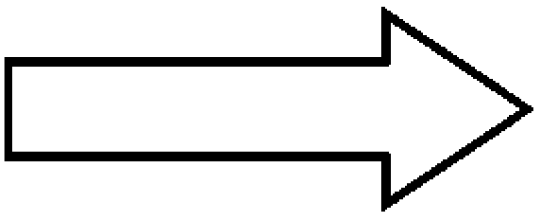
: Positive voltage line



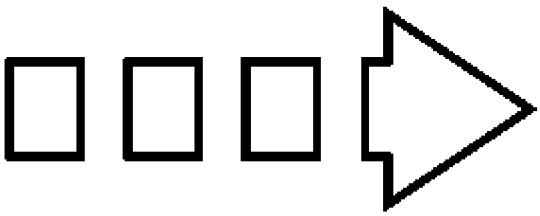
: Negative voltage line

: AM signal line

: AM OSC signal line



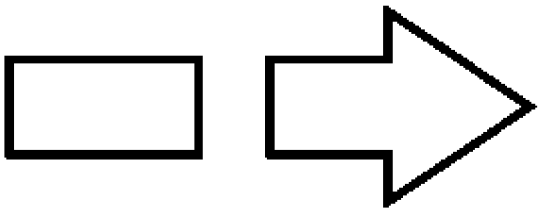
: FM signal line



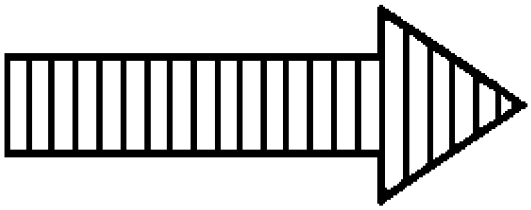
: FM OSC signal line

: Center sp.drive signal line

: Surround sp.drive signal line



: Source signal line



: Mic signal line

10. Schematic Diagram

11. Printed Circuit Board Diagram

12. Wiring Connection Diagram

13. Terminal Function of ICs

13.1. IC901 (LC8A524A5N28): / System Control/FL Drive

Pin No.	Terminal Name	I/O	Function
1	CHECK	O	Clock check signal output
2	LC72 DI	O	PLL data signal output
3	LC72 CE	O	Chip enable signal output
4	LC72 DO /ST	I	IF count data/stereo detect signal input
5	LC72 CK	O	Clock signal output
6	RL1	O	Speaker select signal output
7	RL2	O	Speaker select signal output
8	ST/ AV6CH	-	Not used, open
9	SEL TUNER	O	Tuner select signal output
10	SEL/ TUNER	I	Tuner select signal input (Not used, connected to V_{DD})
11	AC IN	I	Power failure detect signal input
12	RESET	I	Reset signal input
13	X IN	I	Oscillator connected terminal (32.7 kHz)
14	X OUT	O	
15	V_{SS}	-	GND terminal
16	XC IN	I	Oscillator connected terminal (6 MHz)
17	XC OUT	O	
18	$V_{DD}1$	I	Power supply terminal
19	KEY TU	I	Operation key signal input
20	KEY KARAOKE	I	Operation key signal input
21	SH REQ	I	Request signal input from Sound Processor
22	NC(GND)	-	Not used, connected to GND
23	VR JOGB	I	Volume control signal input
24	VR JOGA		
25	MIC DET	I	Microphone connecting detect signal input
26	HP SW	I	Headphone connecting detect signal input
27	RDS CLK	I	RDS clock signal input (Connected to GND)
28	RDS DATA	I	RDS data signal input (Connected to GND)
29	REMOCON	I	Remote control signal input
30	NC	-	Not used, open

Pin No.	Terminal Name	I/O	Function
31 | 37	7G | 1G	O	Grid signal output
38	NC	-	Not used, open
39			
40 | 45	P1 | P6	O	Segment signal output
46	$V_{DD}3$	I	Power supply terminal
47 | 50	P7 | P10	O	Segment signal output
51	-VP	I	Power supply terminal (negative)
52 | 71	P11 | P30	O	Segment signal output
72	$V_{DD}4$	I	Power supply terminal
73 | 77	P31 | P35	O	Segment signal output
78	REGIN0	I	Area select signal input
79	REGIN1		
80	STANDBY	O	LED (STANDBY) drive signal output
81	TIMER	O	LED (TIMER) drive signal output
82	S.W LED	O	LED (DIGITAL S.WOOFER) drive signal output
83	LOUNGE	-	LED (LOUNGE) drive signal output (Not used, open)
84	CHORUS	-	LED (CHORUS) drive signal output (Not used, open)
85	MUTE	O	Muting signal output
86	POWER	O	Power control signal output
87	/ECO	O	ECO signal output
88	MUTE2	O	Muting signal output
89	$V_{SS}2$	-	GND terminal
90	$V_{DD}2$	I	Power supply terminal

Pin No.	Terminal Name	I/O	Function
91	NC	-	Not used, open
92			
93	RL4	-	Not used, open
94	SH CS	O	Chip select signal output for Sound Processor
95	SH DO	O	Serial communication signal to Sound Processor (Data signal output)
96	SH DI	I	Serial communication signal to Sound Processor (Data signal input)
97	SH CK	I	Serial communication signal to Sound Processor (Clock signal input)
98	E DET	I	Unusual condition detect signal input
99	CR TIMER	I/O	TIME CONSTANT terminal
100	SD	I	Station detector signal input from tuner circuit

14. Block Diagram

15. Replacement Parts List

Notes:

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

- The <IA> <IB> <IC> marks in Remarks indicate language of instruction manual.

<IA>: English, Chinese, Arabic

<IB>: English

<IC>: Spanish

- The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)

- The marking [RTL] indicates that Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- All parts are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RKM0395A-1S	CABINET	1	(GC)
1	RKM0395C-S	CABINET	1	(GN)
2	RHD30007-S	SCREW	4	
3	XTBS3+10JFZ1	SCREW	1	
4	REX0967	WIRE ASS'Y	1	
5	RMZ0339	ZNR COVER	1	
6	RGW0343-S	KNOB,VOLUME	1	
7	RHN90001	NUT	1	
8	RKA0106-N	FOOT RING	4	
9	RKF0606B-K1	BACK GRILL	1	
10	RKW0581-1V	FL WINDOW	1	
11	RMN0427	CABLE HOLDER	1	
12	RYP0946A-S	FRONT PANEL ASS'Y	1	
12-1	RGB0025-A	TECHNICS BADGE	1	
13	SHG1654	RUBBER	4	
14	XTB3+10JFZ	SCREW	11	
15	XTB3+8JFZ	SCREW	10	
16	XTW3+15T	SCREW	2	
17	XTBS3+8JFZ1	SCREW	2	
18	RGW0178-1S	KNOB,MIC VOL.	1	
19	RMN0582	HOLDER	1	
20	REM0057	FAN UNIT	1	(GC)
21	XTB3+20JFZ	SCREW	1	
22	XTB3+8FFZ	SCREW	1	(GC)
A1	RAK-EHA28WH	REMOTE CONTROLLER	1	
A1-1	RKK0123-H	BATTERY COVER	1	
A2	REE0393	SPEAKER CORD	2	
A3	REE0984	SPEAKER CORD	2	
A4	REE0985	SPEAKER CORD	2	
A5	RJA0019-X	AC POWER SUPPLY CORD	1	(GC) ⚠
A5	RJA0035-X	AC POWER SUPPLY CORD	1	(GN) ⚠
A6	RQT5357-G	OPERATING INSTRUCTIONS	1	(GC) / <IA>
A6	RQT5355-B	OPERATING INSTRUCTIONS	1	(GN) / <IB>
A7	RQT5358-M	OPERATING INSTRUCTIONS	1	(GC) / <IC>
A8	RQCB0169	SERVICE CENTER LIST	1	
A9	RSA0006-J	FM INDOOR ANTENNA	1	
A10	RSA0022-J	AM LOOP ANTENNA	1	
A11	SJP5213-2	PLUG ADAPTOR	1	(GC) ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A12	RQX7433ZA	WARRANTY CARD	1	(GN)
C201,02	ECBT1H104KB5	50V 0.1U	2	
C371	ECA0JAK101XB	6.3V 100U	1	(GC)
C395,96	ECBT1H473KB5	50V 0.047U	2	
C401	ECBT1H223KB5	50V 0.022U	1	
C402	ECBT1H102KB5	50V 1000P	1	
C403	ECBT1C472KR5	16V 4700P	1	
C404	RCE1HKA3R3BG	50V 3.3U	1	
C405	ECBT1H471KB5	50V 470P	1	
C406	ECEA1EKS4R7	25V 4.7U	1	
C407	ECBT1H103KB5	50V 0.01U	1	
C408	ECBT1H223KB5	50V 0.022U	1	
C409	ECEA1HKS010	50V 1U	1	
C410	ECEA1CKS100	16V 10U	1	
C411	ECBT1H101KB5	50V 100P	1	
C412	ECBT1H102KB5	50V 1000P	1	
C413	ECEA1HKS010	50V 1U	1	
C414	ECA0JM471	6.3V 470U	1	
C415	ECEA1HKS010	50V 1U	1	
C416	ECA1CAK100XB	16V 10U	1	
C417	ECBT1H223KB5	50V 0.022U	1	
C509,10	ECBT1H103KB5	50V 0.01U	2	
C550	ECBT1C103NS5	16V 0.01U	1	
C551	ECA1HAK2R2XB	50V 2.2U	1	
C552	ECBT1H103KB5	50V 0.01U	1	
C553	RCE1HKAR47BG	50V 0.47U	1	(GN)
C554	ECA1AAK221XH	10V 220U	1	
C555,56	ECEA1CKN100B	16V 10U	2	(GC)
C559	ECBT1C103NS5	16V 0.01U	1	(GC)
C564	ECA1CAK100XB	16V 10U	1	
C601,02	ECA1CAK100XB	16V 10U	2	
C603,04	ECBT1H471KB5	50V 470P	2	
C605,06	ECBT1H102KB5	50V 1000P	2	
C607,08	ECBT1H471KB5	50V 470P	2	
C609,10	ECBT1H560J5	50V 56P	2	
C611,12	ECBT1H150JC5	50V 15P	2	
C613,14	ECBT1H470J5	50V 47P	2	
C616	ECEA1HKNR47B	50V 0.47U	1	
C617,18	ECKR2H103ZU	500V 0.01U	2	
C619	ECBT1H103KB5	50V 0.01U	1	
C620,21	ECQV1H473JM3	50V 0.047U	2	
C622	ECA1HM101	50V 100U	1	
C624,25	ECQV1H473JM3	50V 0.047U	2	
C626,27	ECQV1H104JM3	50V 0.1U	2	
C631,32	ECBT1H473KB5	50V 0.047U	2	
C635-37	ECBT1H473KB5	50V 0.047U	3	
C639-44	ECBT1H102KB5	50V 1000P	6	
C645,46	ECBT1H473KB5	50V 0.047U	2	
C647-50	ECBT1H102KB5	50V 1000P	4	
C651	ECBT1H473KB5	50V 0.047U	1	
C652	ECBT1H102KB5	50V 1000P	1	
C659,60	ECA1CAK100XB	16V 10U	2	
C666	ECBT1H473KB5	50V 0.047U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C701-04	ECA1VM472E	4700U	4	⚠
C705	ECBT1H103KB5	50V 0.01U	1	
C706	RCE1VKA100BG	35V 10U	1	
C707,08	ECBT1H473KB5	50V 0.047U	2	
C709	ECQV1H104JM3	50V 0.1U	1	
C710	ECBT1H473KB5	50V 0.047U	1	
C714	ECBT1H102KB5	50V 1000P	1	
C715	ECA1EAM472XE	4700U	1	⚠
C717	ECA1CAK330XB	16V 33U	1	
C718	ECA1CAK101XB	16V 100U	1	
C719,20	ECBT1H473KB5	50V 0.047U	2	
C721	RCE1AKA101BG	10V 100U	1	
C722	ECA1CM101	16V 100U	1	
C723,24	ECBT1H473KB5	50V 0.047U	2	
C731	ECBT1H102KB5	50V 1000P	1	
C732	ECBT1H223KB5	50V 0.022U	1	
C733	ECBT1H473KB5	50V 0.047U	1	
C734	RCE1HKA3R3BG	50V 3.3U	1	
C735	ECBT1H473KB5	50V 0.047U	1	
C737	ECA1HM101	100U	1	⚠
C740	ECA1CAK100XB	16V 10U	1	
C741	ECQE1104KF3	100V 0.1U	1	
C753	ECKR1H103ZF5	50V 0.01U	1	
C754	ECBT1H103KB5	50V 0.01U	1	
C755	ECA1CAM102XB	1000U	1	⚠
C756	ECA1CAM102XB	16V 100U	1	(GC)
C757	ECBT1H102KB5	50V 1000P	1	(GC)
C758	ECBT1H103KB5	50V 0.01U	1	
C759	RCE1AKA470BG	10V 47U	1	
C761	ECQE1104KF3	100V 0.1U	1	
C762	ECA1CAK220XB	16V 22U	1	(GC)
C791	ECKWRS102MBC	1000P	1	⚠
C901	EEAFC0J101B	6.3V 100U	1	
C902	RCE1AM102BV	10V 1000U	1	
C903,04	ECBT1H103KB5	50V 0.01U	2	
C905	ECBT1H102KB5	50V 1000P	1	
C907,08	ECBT1H471KB5	50V 470P	2	
C909	ECBT1H102KB5	50V 1000P	1	
C910	ECBT1H200JC5	50V 20P	1	
C911	ECBT1H180J5	50V 18P	1	
C912	ECBT1H104KB5	50V 0.1U	1	
C913	ECA1CAK100XB	16V 10U	1	
C914	ECEA1HKS2R2	50V 2.2U	1	
C915	ECBT1H103KB5	50V 0.01U	1	
C916	EEAFC0J101B	6.3V 100U	1	
C917	ECBT1H103KB5	50V 0.01U	1	
C918	ECEA0JKS101	6.3V 100U	1	
C919,20	RCE1HKA4R7BG	50V 4.7U	2	
C921	ECBT1H102KB5	50V 1000P	1	
C922	ECA1VAK330XB	35V 33U	1	
C923,24	ECBT1H104KB5	50V 0.1U	2	
C925,26	ECBT1H102KB5	50V 1000P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C927,28	RCE1HKA4R7BG	50V 4.7U	2	
C931	ECA1CAK100XB	16V 10U	1	
C961	ECEA1CKS100	16V 10U	1	
CN601	RJU057W012	CONNECTOR(12P)	1	
CN602	RJU057W008	CONNECTOR(8P)	1	
CN603	RJU057W004	CONNECTOR(4P)	1	
CN701-10	RJS1A1101T1	CONNECTOR(1P)	10	
CN711-13	RJS1A1101T1	CONNECTOR(1P)	3	(GN)
CN714-20	RJS1A1101T1	CONNECTOR(1P)	7	(GC)
CN751	RJP1A4103	CONNECTOR(3P)	1	(GC)
CN781	RJS10T5ZA	CONNECTOR(10P)	1	
CN904	RJS4T5ZA	CONNECTOR(4P)	1	
CP101	RJT100W11	CONNECTOR(11P)	1	
CP601	RJT057W012-1	CONNECTOR(12P)	1	
CP602	RJT057W008-1	CONNECTOR(8P)	1	
CP603	RJT057W004-1	CONNECTOR(4P)	1	
D201	MA4056M	DIODE	1	
D306	SELS5223C	LED	1	
D500	MA165	DIODE	1	
D551,52	MA165	DIODE	2	
D553	MA700	DIODE	1	(GC)
D554	MA165	DIODE	1	(GC)
D555	MA4100M	DIODE	1	
D558	MA165	DIODE	1	
D563	MA165	DIODE	1	
D581-83	RL1N4003N02	DIODE	3	(GC)
D601,02	SB360L6508	DIODE	2	
D607	1SS291TA	DIODE	1	
D613,14	MA165	DIODE	2	
D657-59	MA165	DIODE	3	
D701-04	1N5402BF	DIODE	4	⚠
D705	RL1N4003N02	DIODE	1	⚠
D711	RL1N4003N02	DIODE	1	
D715	MA165	DIODE	1	
D717-20	RL1N4003N02	DIODE	4	⚠
D721	MA4300M	DIODE	1	⚠
D723	MA4150M	DIODE	1	⚠
D725	MA4082LTA	DIODE	1	⚠
D730	MA4091H	DIODE	1	⚠
D736	MA165	DIODE	1	
D737	MA4082LTA	DIODE	1	⚠
D738,39	MA165	DIODE	2	
D740	MA165	DIODE	1	(GN)
D741,42	RL1N4003N02	DIODE	2	
D743,44	RL1N4003N02	DIODE	1	(GN)
D745	MA4051M	DIODE	1	
D746	RL1N4003N02	DIODE	1	
D747	MA4068H	DIODE	1	(GC) ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D747	MA4068L	DIODE	1	(GN) ⚠
D748	MA165	DIODE	1	(GC)
D749	MA165	DIODE	1	
D750	1SS291TA	DIODE	1	(GC)
D751,52	1N5402BF	DIODE	2	⚠
D753-55	RL1N4003N02	DIODE	3	⚠
D756,57	MA700	DIODE	2	
D758	MA165	DIODE	1	
D760	MA165	DIODE	1	
D761	RL1N4003N02	DIODE	1	⚠
D901,02	1SS291TA	DIODE	2	
D903,04	MA165	DIODE	2	
D905	1SS291TA	DIODE	1	
D906,07	MA165	DIODE	2	
D915	1SS291TA	DIODE	1	
D934	MA165	DIODE	1	
D936	MA165	DIODE	1	
D951	LNJ301MPUJAD	LED	1	
D954	SELS5923C	LED	1	
D956	SELS5923C	LED	1	
D961	MA4075M	DIODE	1	
D973	MA4030M	DIODE	1	⚠
D974	MA165	DIODE	1	
E601,02	SNE1004-2	GND PLATE	2	
F1	XBA2C20TB0	FUSE,2A	1	(GN) ⚠
F1	XBA2C40TB0	FUSE,4A	1	(GC) ⚠
F2	XBA2C20TB0	FUSE,2A	1	(GC) ⚠
FL901	RSL0298-F	FL	1	
IC201	BU4053BCFE2	IC	1	
IC401	TA2011S	IC	1	
IC601	RSN311W64A	IC	1	⚠
IC901	LC8A524A5N28	IC	1	
JK551	SJT3213	CONNECTOR,FAN MOTOR	1	(GC)
JK601,02	RJH5603-1J	SP TERMINAL(6P)	2	
JK603	RJH2308	JACK,SPEAKER	1	
JK701	SJS9236-1	JACK,AC INLET	1	⚠
JK901,02	RJJ65MA01	MIC JACK	2	
JK903	RJJ37TN02-C	JACK,HEADPHONE	1	
L601-06	RLQYR73MW1-0	COIL	6	
L701	RLQZ371	COIL	1	⚠
L901	RLQA100JT1-Y	COIL	1	
L902	RLQA1R0JT1-Y	COIL	1	
P1	RPG4791	PACKING CASE(SYSTEM)	1	(GC)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P1	RPG4792	PACKING CASE(SYSTEM)	1	(GN)
P2	RPQ0951	PAD(SYSTEM)	1	
P3	RPG4396	PACKING CASE(SA)	1	
P3	RPG4397	PACKING CASE(RS)	1	
P3	RPG4398	PACKING CASE(SH)	1	
P3	RPG4399	PACKING CASE(SL)	1	
P4	RPN1194	PAD(SA)	1	
P4	RPN1195-2	PAD(RS)	1	
P4	RPN1196	PAD(SH)	1	
P4	RPN1197	PAD(SL)	1	
P5	RPF0139	PROTECTION BAG(F.B.)	1	
P6	SPP740-1	SHEET	4	
PCB1	REP2964C-M	MAIN P.C.B	1	[RTL] / (GC)
PCB1	REP2964B-M	MAIN P.C.B.	1	[RTL] / (GN)
PCB2	REP2966C-S	SUB P.C.B	1	[RTL] / (GC)
PCB2	REP2966B-S	SUB P.C.B.	1	[RTL] / (GN)
PCB3	REP2845E-P	POWER P.C.B.	1	[RTL] / (GC) ⚠
Q401	2SC5398RSTA	TRANSISTOR	1	
Q503	2SD2144STA	TRANSISTOR	1	
Q551	2SA1995RSTA	TRANSISTOR	1	
Q553	2SD2144STA	TRANSISTOR	1	(GC)
Q554	2SA1995RSTA	TRANSISTOR	1	
Q555	2SD2144STA	TRANSISTOR	1	
Q556	2SC5398RSTA	TRANSISTOR	1	(GC)
Q557	2SA1995RSTA	TRANSISTOR	1	(GC)
Q558	UN4211	TRANSISTOR	1	
Q601,02	2SC5398RSTA	TRANSISTOR	2	
Q605-08	2SD2144STA	TRANSISTOR	4	
Q617,18	2SD2144STA	TRANSISTOR	2	
Q701	2SD2374PQAU	TRANSISTOR	1	⚠
Q702	2SB1548PQAU	TRANSISTOR	1	⚠
Q703	2SD2137PQTA	TRANSISTOR	1	⚠
Q704	2SD2137PQTA	TRANSISTOR	1	(GC)
Q705	2SA1995RSTA	TRANSISTOR	1	⚠
Q706	UN4211	TRANSISTOR	1	
Q707	2SB1548PQAU	TRANSISTOR	1	⚠
Q708	UN4211	TRANSISTOR	1	
Q709	2SD2144STA	TRANSISTOR	1	
Q711	2SB1548PQAU	TRANSISTOR	1	⚠
Q723	2SC3940AQSTA	TRANSISTOR	1	⚠
Q725	2SC5398RSTA	TRANSISTOR	1	⚠
Q726	2SC3940AQSTA	TRANSISTOR	1	⚠
Q727	2SC5398RSTA	TRANSISTOR	1	(GC) ⚠
Q791	2SD2144STA	TRANSISTOR	1	
Q901	UN4212TA	TRANSISTOR	1	
Q902	UN411FTA	TRANSISTOR	1	
Q911,12	2SD2144STA	TRANSISTOR	2	
Q961	UN4115	TRANSISTOR	1	

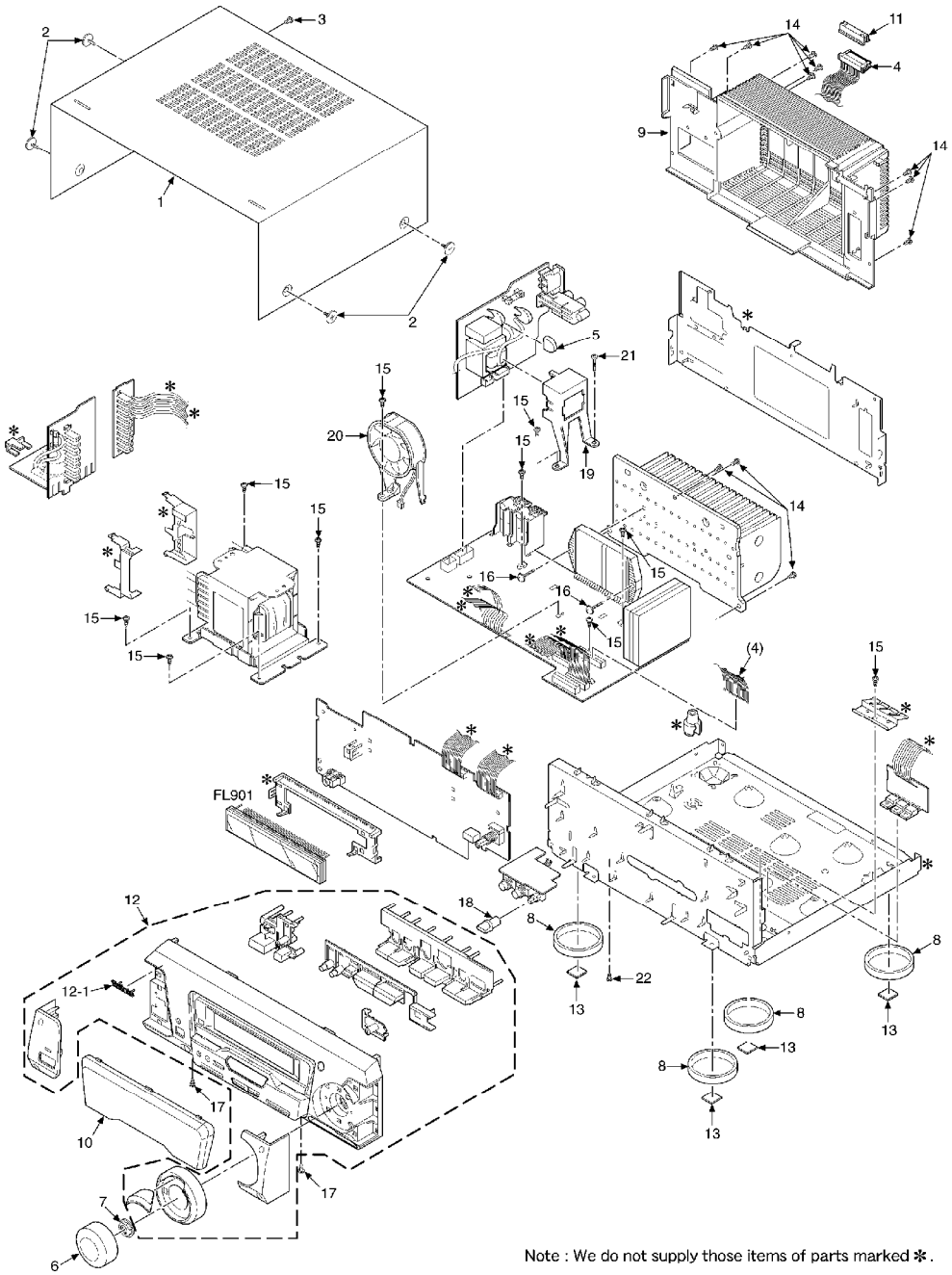
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R202-04	ERDS2FJ104	1/4W 100K	3	
R211	ERDS2FJ271	1/4W 270	1	
R229,30	ERDS2FJ102	1/4W 1K	2	
R401,02	ERDS2FJ681	1/4W 680	2	
R403	ERDS2FJ223	1/4W 22K	1	
R404	ERDS2FJ471	1/4W 470	1	
R405	ERDS2FJ472	1/4W 4.7K	1	
R406	ERDS2FJ474	1/4W 470K	1	
R407	ERDS2FJ472	1/4W 4.7K	1	
R409	ERDS2FJ472	1/4W 4.7K	1	
R410	ERDS2FJ222	1/4W 2.2K	1	
R411	ERDS2FJ331	1/4W 330	1	
R412	ERDS2FJ105	1/4W 1M	1	
R415	ERDS2FJ471	1/4W 470	1	
R416	ERDS2FJ331	1/4W 330	1	
R421	ERDS2FJ223	1/4W 22K	1	
R509-12	ERDS2FJ470	1/4W 47	4	
R544	ERDS2FJ103	1/4W 10K	1	
R546	ERDS2FJ183	1/4W 18K	1	(GC)
R546	ERDS2FJ562	1/4W 5.6K	1	(GN)
R547	ERDS2FJ183	1/4W 18K	1	(GC)
R547	ERDS2FJ562	1/4W 5.6K	1	(GN)
R548	ERDS2FJ102	1/4W 1K	1	(GN)
R551	ERDS2FJ183	1/4W 18K	1	
R552	ERDS2FJ473	1/4W 47K	1	
R553,54	ERDS2FJ562	1/4W 5.6K	2	(GN)
R555	ERDS2FJ223	1/4W 22K	1	
R556	ERDS2FJ104	1/4W 100K	1	
R557	ERDS2FJ103	1/4W 10K	1	
R558	ERDS2FJ222	1/4W 2.2K	1	
R559	ERDS2FJ472	1/4W 4.7K	1	
R560	ERDS2FJ104	1/4W 100K	1	(GC)
R561	ERDS2FJ104	1/4W 100K	1	
R563,64	ERDS2FJ272	1/4W 2.7K	2	
R566	ERDS2FJ683	1/4W 68K	1	(GC)
R567	ERG1SJ220	1W 22	1	(GC)
R568	ERDS2FJ101	1/4W 100	1	(GC)
R569	ERDS2FJ103	1/4W 10K	1	(GC)
R570	ERDS2TJ225	1/4W 2.2M	1	
R571	ERDS2FJ562	1/4W 5.6K	1	
R572	ERDS2FJ153	1/4W 15K	1	
R591	ERDS2FJ472	1/4W 4.7K	1	
R597,98	ERDS2FJ222	1/4W 2.2K	2	
R601-04	ERDS2FJ332	1/4W 3.3K	4	
R605,06	ERDS2FJ472	1/4W 4.7K	2	
R607	ERDS2FJ563	1/4W 56K	1	(GN)
R607	ERDS2FJ753	1/4W 75K	1	(GC)
R608	ERDS2FJ563	1/4W 56K	1	(GN)
R608	ERDS2FJ753	1/4W 75K	1	(GC)
R609,10	ERDS2FJ154	1/4W 150K	2	
R611,12	ERDS2FJ563	1/4W 56K	2	
R614,15	ERDS2FJ472	1/4W 4.7K	2	
R617,18	ERDS2FJ472	1/4W 4.7K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R619,20	ERDS2FJ124	1/4W 120K	2	
R621	ERDS2FJ154	1/4W 150K	1	
R622,23	ERDS2FJ124	1/4W 120K	2	
R624	ERDS2FJ154	1/4W 150K	1	
R626	ERDS2FJ102	1/4W 1K	1	
R627	ERDS2FJ474	1/4W 470K	1	
R628	ERDS2FJ223	1/4W 22K	1	
R629	ERDS2FJ102	1/4W 1K	1	
R631,32	ERDS2FJ392	1/4W 3.9K	2	
R635	ERDS2FJ222	1/4W 2.2K	1	
R637	ERDS2FJ153	1/4W 15K	1	
R638	ERDS2FJ683	1/4W 68K	1	
R639,40	ERDS1FJ100	10	2	⚠
R641,42	ERD2FCG100	10	2	⚠
R643,44	ERDS1FJ100	10	2	⚠
R645,46	ERD2FCG100	10	2	⚠
R647	ERDS2FJ391	390	1	⚠
R648	ERDS2FJ121	120	1	⚠
R649,50	ERDS1FJ100	10	2	⚠
R651,52	ERD2FCG100	10	2	⚠
R667	ERDS2FJ392	1/4W 3.9K	1	
R668	ERDS2FJ473	1/4W 47K	1	
R669,70	ERDS1FJ470	47	2	⚠
R672	ERDS2FJ473	1/4W 47K	1	
R675	ERDS2FJ392	1/4W 3.9K	1	
R683-86	ERDS2FJ102	1/4W 1K	4	
R687,88	ERDS2FJ152	1/4W 1.5K	2	
R691	ERDS1FJ151	150	1	⚠
R702	ERDS2FJ273	1/4W 27K	1	
R703-05	ERG1SJ222	1W 2.2K	3	
R707	ERD2FCJ4R7	4.7	1	⚠
R708	ERDS2FJ472	1/4W 4.7K	1	
R712	ERDS2FJ222	1/4W 2.2K	1	(GN)
R712	ERDS2FJ472	1/4W 4.7K	1	(GC)
R719	ERDS2FJ332	1/4W 3.3K	1	
R720	ERDS2FJ392	1/4W 3.9K	1	
R721	ERD2FCJ4R7	4.7	1	⚠
R722	ERQ16NKW2R2E	2.2	1	⚠
R723	ERDS2FJ562	1/4W 5.6K	1	
R724	ERDS2FJ392	1/4W 3.9K	1	
R725	ERDS2FJ100	1/4W 10	1	
R727	ERDS2FJ392	1/4W 3.9K	1	
R729	ERDS2FJ221	1/4W 220	1	
R738	ERDS2FJ392	1/4W 3.9K	1	
R739	ERDS2FJ473	1/4W 47K	1	
R749	ERDS2FJ102	1/4W 1K	1	
R763	ERDS2FJ472	1/4W 4.7K	1	
R764	ERDS2FJ331	1/4W 330	1	
R765	ERDS1FJ221	220	1	⚠

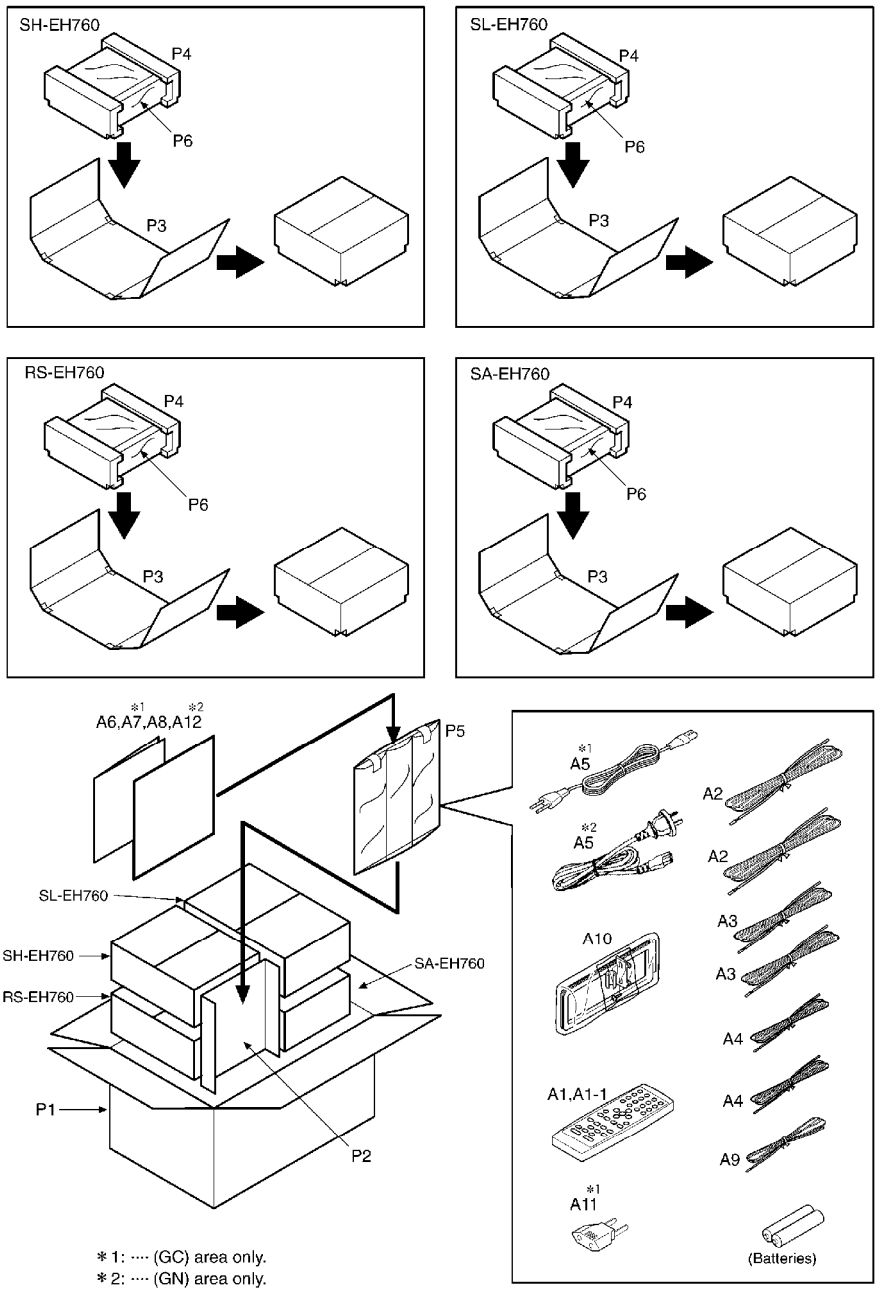
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R766	ERDS1FJ470	47	1	⚠
R767	ERG1SJ270	1W 27	1	(GC) ⚠
R767	ERD2FCJ4R7	4.7	1	(GN)
R768	ERDS2FJ101	1/4W 100	1	
R769	ERG1SJ270	1W 27	1	(GC)
R770	ERDS2FJ104	1/4W 100K	1	
R771	ERDS2FJ102	1/4W 2.2K	1	(GN)
R771	ERDS2FJ122	1/4W 1.2K	1	(GC)
R772	ERDS2FJ223	1/4W 22K	1	
R773,74	ERDS1FJ180	18	2	⚠
R775	ERDS2FJ824	1/4W 820K	1	(GC)
R776	ERDS2FJ103	1/4W 10K	1	
R777	ERDS2FJ182	1/4W 1.8K	1	(GC)
R777	ERDS2FJ102	1/4W 1K	1	(GN)
R780	ERDS2FJ103	1/4W 10K	1	(GC)
R791,92	RSFMB40KT-L	FUSE PROTECTOR	2	⚠
R793	ERDS2FJ1R0	1/4W 1	1	
R794	ERDS2FJ473	1/4W 47K	1	
R795	ERDS2FJ392	1/4W 3.9K	1	
R796,97	ERDS2FJ2R2	1/4W 2.2	2	(GC)
R798,99	ERX1SJ6R8	1W 6.8	2	(GC)
R901	ERDS2FJ821	1/4W 820	1	
R902	ERDS2FJ102	1/4W 1K	1	
R903	ERDS2FJ122	1/4W 1.2K	1	
R904	ERDS2FJ152	1/4W 1.5K	1	
R905	ERDS2FJ182	1/4W 1.8K	1	
R906	ERDS2FJ222	1/4W 2.2K	1	
R907	ERDS2FJ332	1/4W 3.3K	1	
R908	ERDS2FJ472	1/4W 4.7K	1	
R909	ERDS2FJ182	1/4W 1.8K	1	
R910	ERDS2FJ222	1/4W 2.2K	1	
R911	ERDS2FJ332	1/4W 3.3K	1	
R912	ERDS2FJ472	1/4W 4.7K	1	
R913	ERDS2FJ821	1/4W 820	1	
R914	ERDS2FJ102	1/4W 1K	1	
R915	ERDS2FJ122	1/4W 1.2K	1	
R916	ERDS2FJ152	1/4W 1.5K	1	
R918	ERDS2FJ103	1/4W 10K	1	
R919	ERDS2FJ153	1/4W 15K	1	
R921,22	ERDS2FJ103	1/4W 10K	2	
R923	ERDS2FJ223	1/4W 22K	1	
R924,25	ERDS2FJ102	1/4W 1K	2	
R926	ERDS2FJ222	1/4W 2.2K	1	
R928	ERDS2FJ473	1/4W 47K	1	
R929-32	ERDS2FJ102	1/4W 1K	4	
R933	ERDS2FJ471	1/4W 470	1	
R934-36	ERDS2FJ101	1/4W 100	3	
R937	ERDS2FJ103	1/4W 10K	1	
R938	ERDS2FJ102	1/4W 1K	1	
R939	ERDS2FJ152	1/4W 1.5K	1	
R941,42	ERDS2FJ102	1/4W 1K	2	
R943	ERDS2FJ101	1/4W 100	1	
R944	ERDS2FJ222	1/4W 2.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R945	ERDS2FJ101	1/4W 100	1	
R946	ERDS2FJ102	1/4W 1K	1	
R947,48	ERDS2FJ104	1/4W 100K	2	
R949	ERDS2FJ472	1/4W 4.7K	1	
R950	ERDS2FJ101	1/4W 100	1	
R951	ERDS2FJ334	1/4W 330K	1	
R952	ERDS2TJ106T	1/4W 10M	1	
R953	ERDS2FJ101	1/4W 100	1	
R954	ERDS2FJ104	1/4W 100K	1	
R955	ERDS2FJ824	1/4W 820K	1	
R956-58	ERDS2FJ102	1/4W 1K	3	
R959	ERDS2FJ470	1/4W 47	1	
R960	ERDS2FJ152	1/4W 1.5K	1	
R961,62	ERDS2FJ223	1/4W 22K	2	
R963,64	ERDS2FJ121	1/4W 120	2	
R965,66	ERDS2FJ392	1/4W 3.9K	2	
R967	ERDS2FJ222	1/4W 2.2K	1	
R968	ERDS2FJ105	1/4W 1M	1	
R969	ERDS2FJ272	1/4W 2.7K	1	
R975	ERDS2FJ154	1/4W 150K	1	
R976	ERDS2FJ104	1/4W 100K	1	
R984	ERDS2FJ391	1/4W 390	1	
R986	ERDS2FJ152	1/4W 1.5K	1	
R987,88	ERDS2FJ102	1/4W 1K	2	
R990	ERDS2FJ104	1/4W 100K	1	
R991	ERDS2FJ473	1/4W 47K	1	
R993	ERDS2FJ104	1/4W 100K	1	
R995	ERDS2FJ221	1/4W 220	1	
R996,97	ERDS2FJ151	1/4W 150	2	
RL602	RSY0050-0	RELAY	1	⚠
RL605	RSY0050-0	RELAY	1	⚠
RL701	RSY0030M-0	RELAY	1	⚠
RL702	RSY0040M-0	RELAY	1	⚠
S701	RSR4B008S-Q	SW,VOLT.ADJ.	1	(GC) ⚠
S901-15	EVQ11G05R	SW,PUSH	15	
T701	RTP2N5E019	POWER TRANSFORMER	1	(GC) ⚠
T701	RTP2N5B012	POWER TRANSFORMER	1	(GN) ⚠
T702	RTP1H3E001	POWER TRANSFORMER	1	⚠
VR401	EVUE27FK3B53	V.R,MIC VOL	1	
VR901	EVQVBXFK124B	V.R,VOLUME	1	
X901	EF0EC6004T4	OSCILLATOR	1	
X902	RSXD32K7S02	OSCILLATOR	1	
Z120	RAN0004MM-1	TUNER UNIT	1	
Z701	ERZV10V511CS	ZNR	1	⚠
Z901	RCDGP1U28XD	REMOTE SENSOR	1	

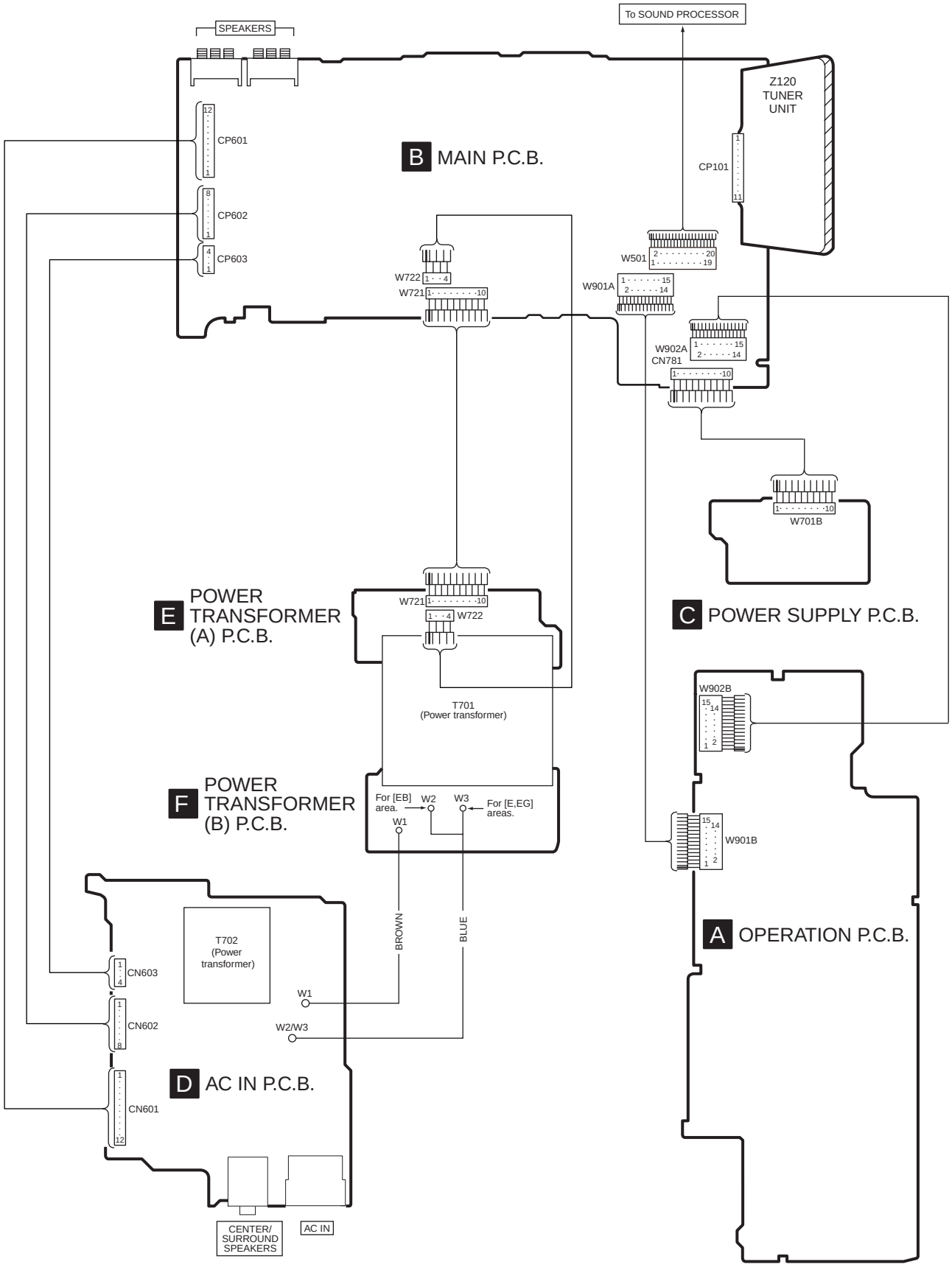
16. Cabinet Parts Location



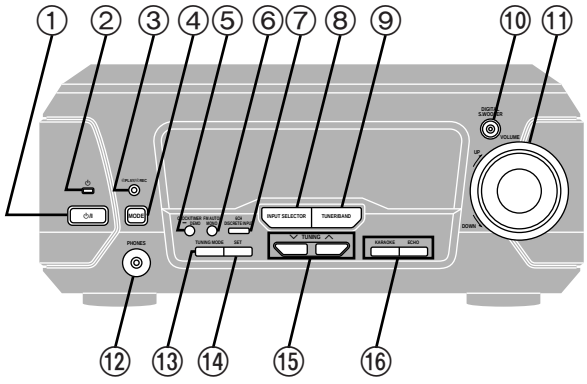
17. Packaging



F000400000YM/KH


SPEAKERS
To SOUND PROCESSOR
Z120
TUNER
UNIT
CP101
B MAIN P.C.B.
CP601
CP602
CP603
W722
W721
W501
W901A
W902A
CN781
W701B
C POWER SUPPLY P.C.B.
E POWER
TRANSFORMER
(A) P.C.B.
T701
(Power transformer)
F POWER
TRANSFORMER
(B) P.C.B.
For [EB]
area.
W2
W3
For [E,EG]
areas.
W1
W902B
W901B
A OPERATION P.C.B.
BROWN
BLUE
T702
(Power
transformer)
CN603
CN602
CN601
W1
W2/W3
D AC IN P.C.B.
CENTER/
SURROUND
SPEAKERS
AC IN

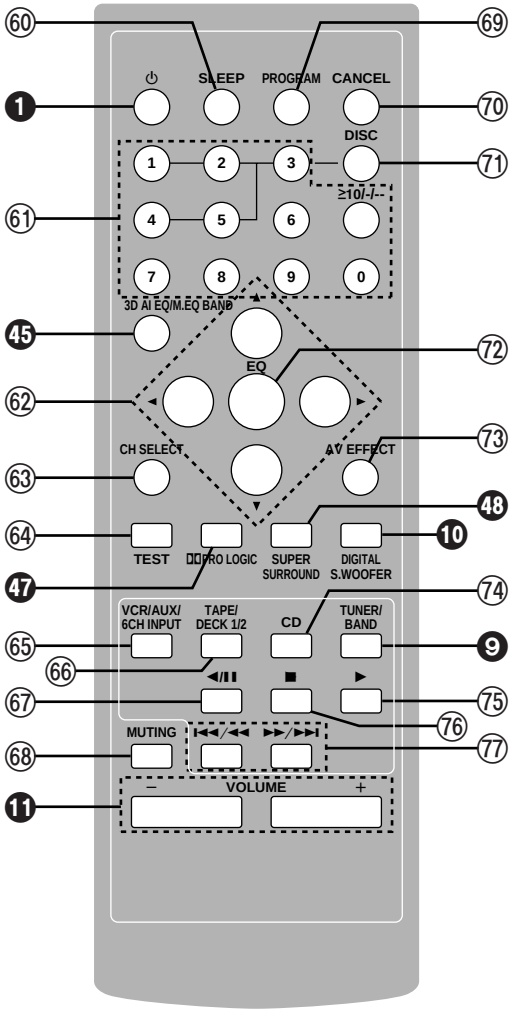
A



A Tuner amplifier

① **Standby/on switch (⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
② **Standby indicator (⏻)**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
③ **Play timer/record timer button and indicator (◴PLAY/◴REC)**
④ **ECO mode button (MODE)**
⑤ **Clock/timer, demo button (CLOCK/TIMER, –DEMO)**
⑥ **FM mode button (FM AUTO/MONO)**
⑦ **6ch discrete input button (6CH DISCRETE INPUT)**
⑧ **Source input button (INPUT SELECTOR)**
⑨ **Tuner/band button (TUNER/BAND)**
⑩ **Digital super woofer button and indicator (DIGITAL S.WOOFER)**
⑪ **Volume control (VOLUME)**
⑫ **Headphone jack (PHONES)**
⑬ **Tuning mode button (TUNING MODE)**
⑭ **Set button (SET)**
⑮ **Tuning buttons (∨, ∧ TUNING)**
⑯ **RDS display mode buttons (RDS, PS–DISP MODE–PTY)**

B

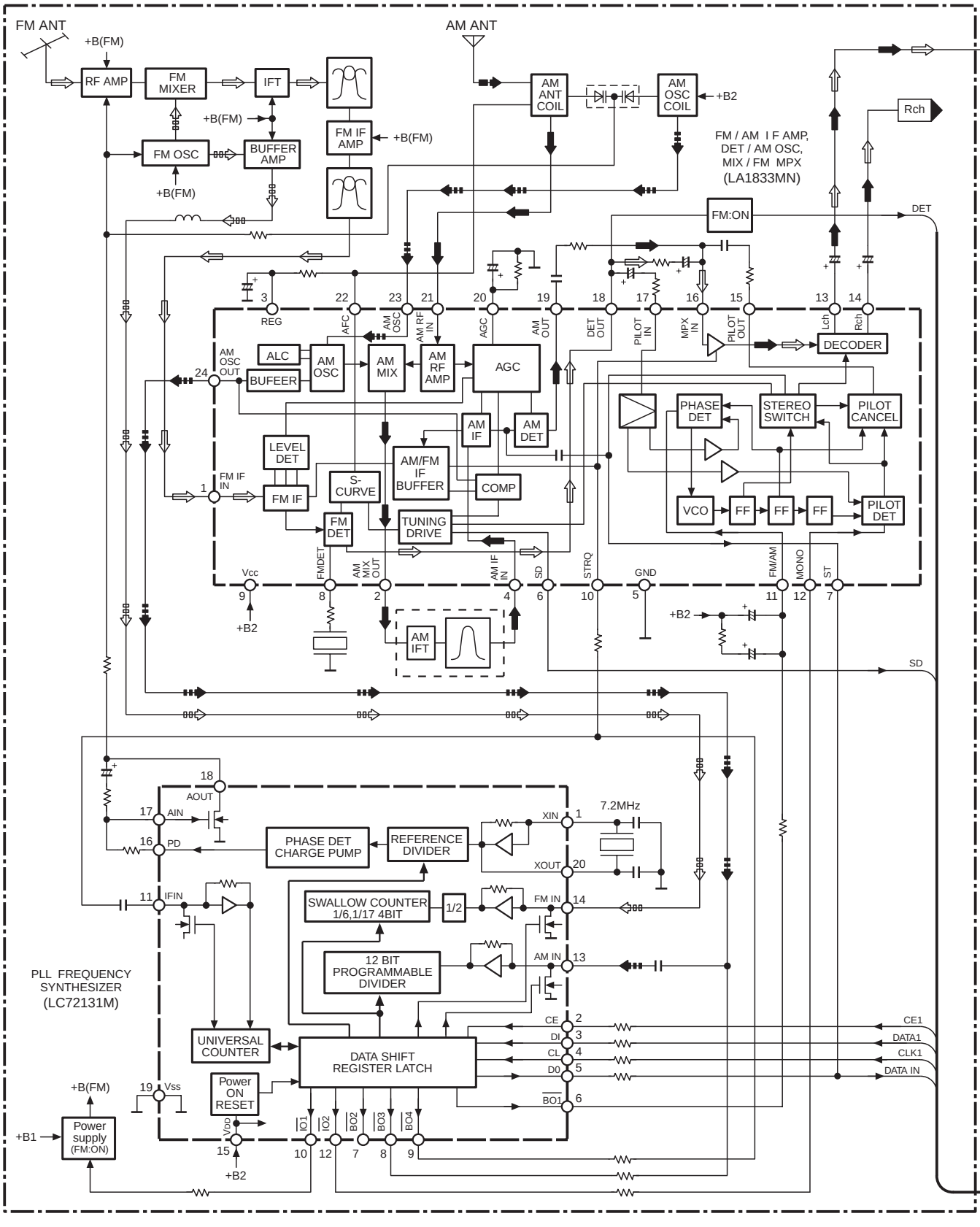


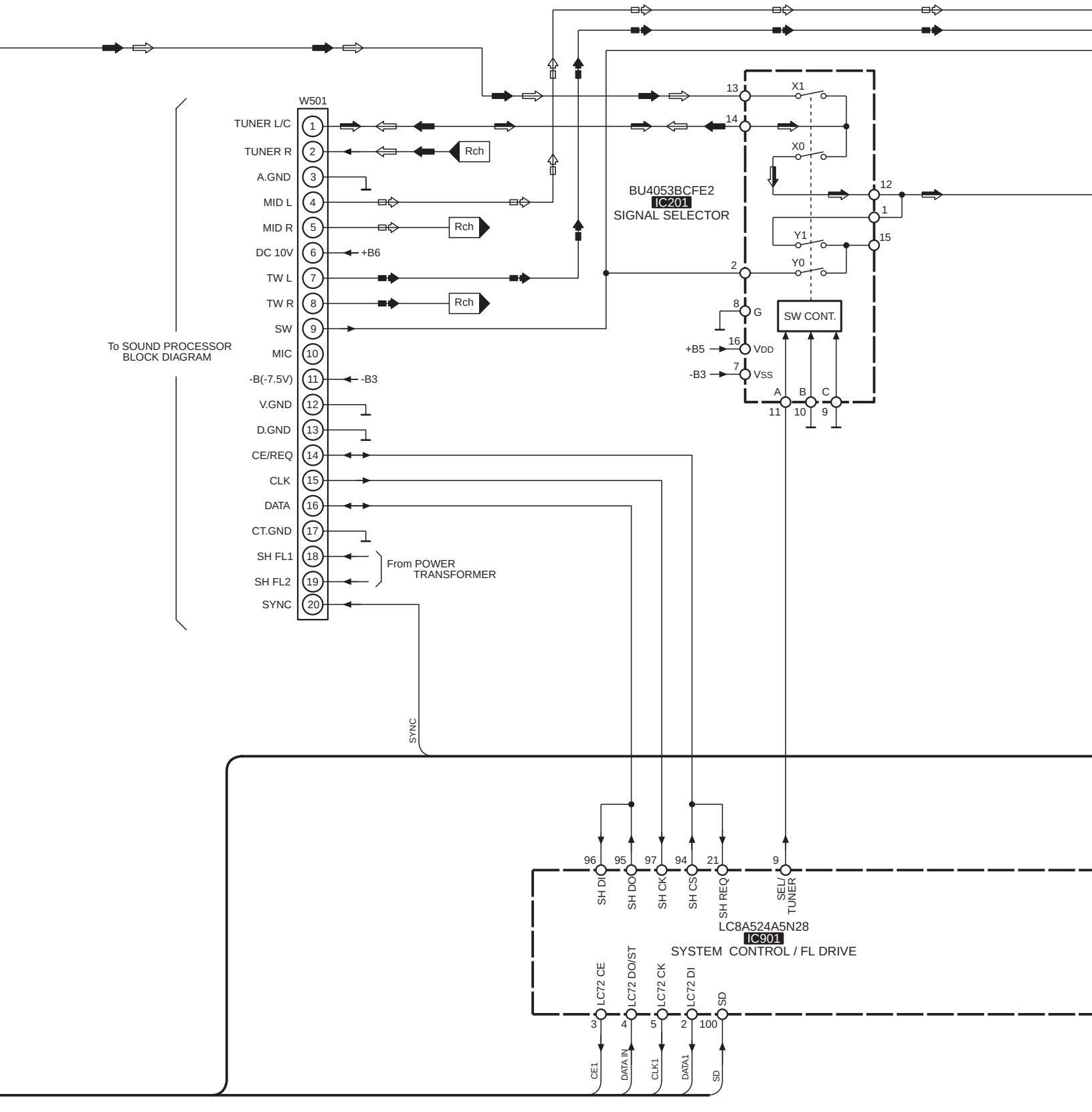
B Remote controls

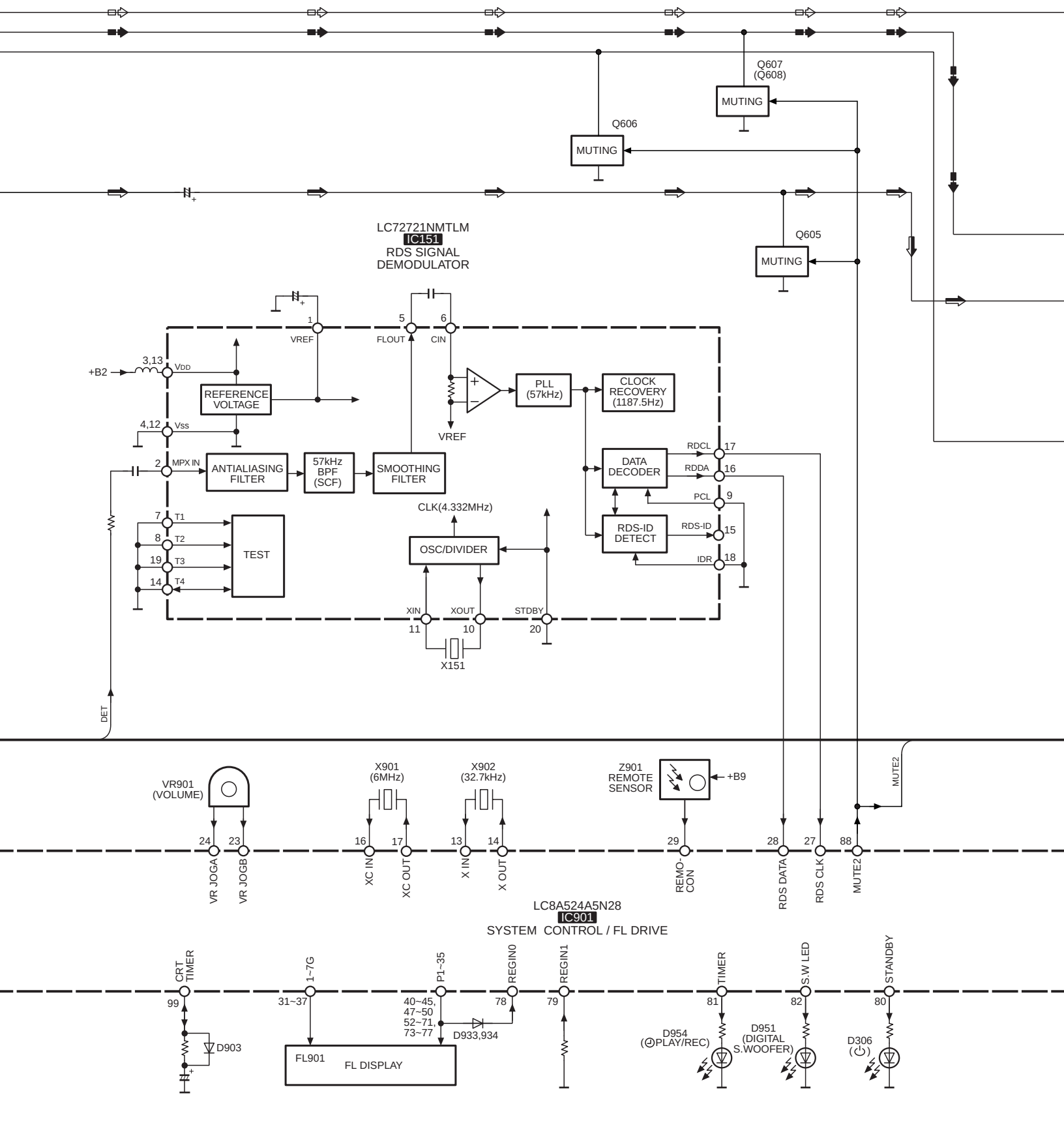
Buttons ❶, ❾–⓫, ㊺, ㊼ and ㊽ function in the same way as the controls on the main unit.

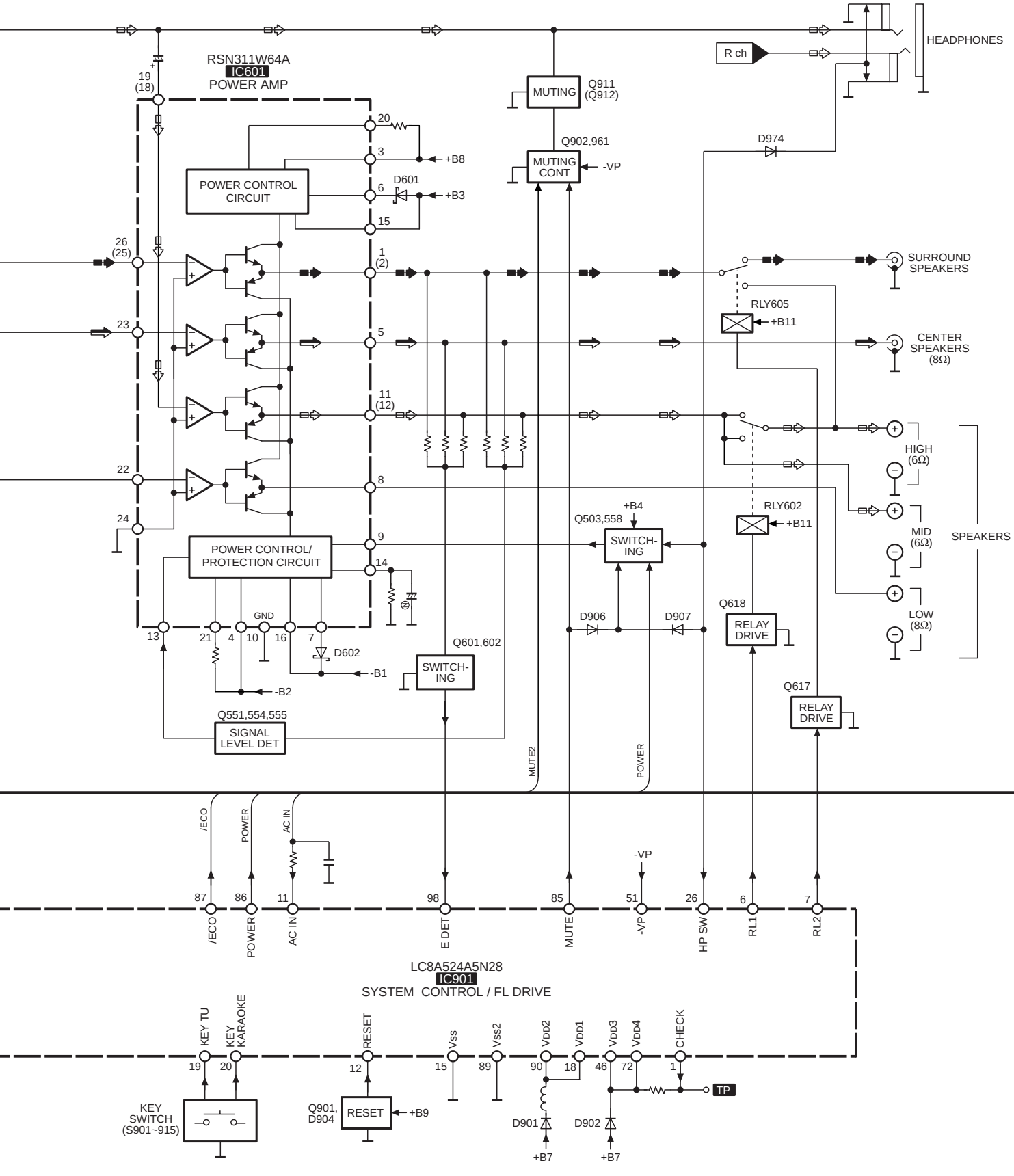
⑥⓪ **Sleep timer button (SLEEP)**
⑥① **Numbered buttons (1–9, 0, ≥10/-/--)**
⑥② **Cursor buttons (◄, ►, ▲, ▼)**
⑥③ **Channel select button (CH SELECT)**
⑥④ **Test button (TEST)**
⑥⑤ **Input select button (VCR/AUX/6CH INPUT)**
⑥⑥ **TAPE select, deck 1/deck 2 select button (TAPE/DECK 1/2)**
⑥⑦ **CD pause/Tape reverse playback button (◄/II)**
⑥⑧ **Muting button (MUTING)**
⑥⑨ **Program button (PROGRAM)**
⑦⓪ **Cancel button (CANCEL)**
⑦① **Disc button (DISC)**
⑦② **EQ button (EQ)**
⑦③ **AV effect button (AV EFFECT)**
⑦④ **CD button (CD)**
⑦⑤ **CD play/tape forward playback button (►)**
⑦⑥ **CD/tape stop button (■)**
⑦⑦ **CD skip/search, tape fast forward/rewind buttons (I◄◄/◄◄, ►►/►►I)**

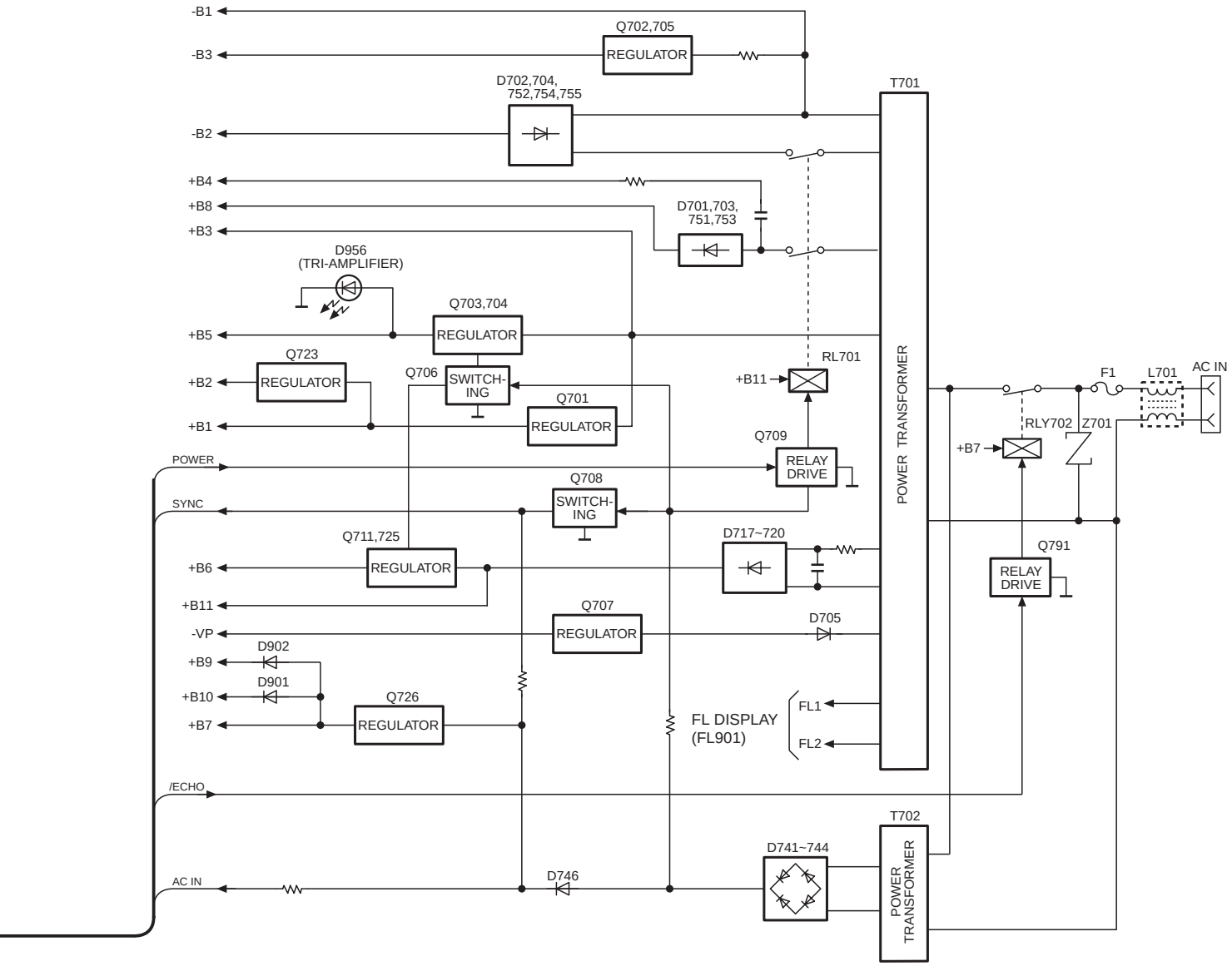
Z120 TUNER UNIT (RAN0005EM)




W501
TUNER L/C
TUNER R
A.GND
MID L
MID R
DC 10V
TW L
TW R
SW
MIC
-B(-7.5V)
V.GND
D.GND
CE/REQ
CLK
DATA
CT.GND
SH FL1
SH FL2
SYNC
Rch
Rch
Rch
+B6
-B3
From POWER TRANSFORMER
To SOUND PROCESSOR BLOCK DIAGRAM
BU4053BCFE2
IC201
SIGNAL SELECTOR
X1
X0
Y1
Y0
SW CONT.
G
VDD
VSS
+B5
-B3
SYNC
SH DI
SH DO
SH CK
SH CS
SH REQ
SEL/ TUNER
LC8A524A5N28
IC901
SYSTEM CONTROL / FL DRIVE
LC72 CE
LC72 DO/ST
LC72 CK
LC72 DI
SD
CE1
DATA IN
CLK1
DATA1
SD

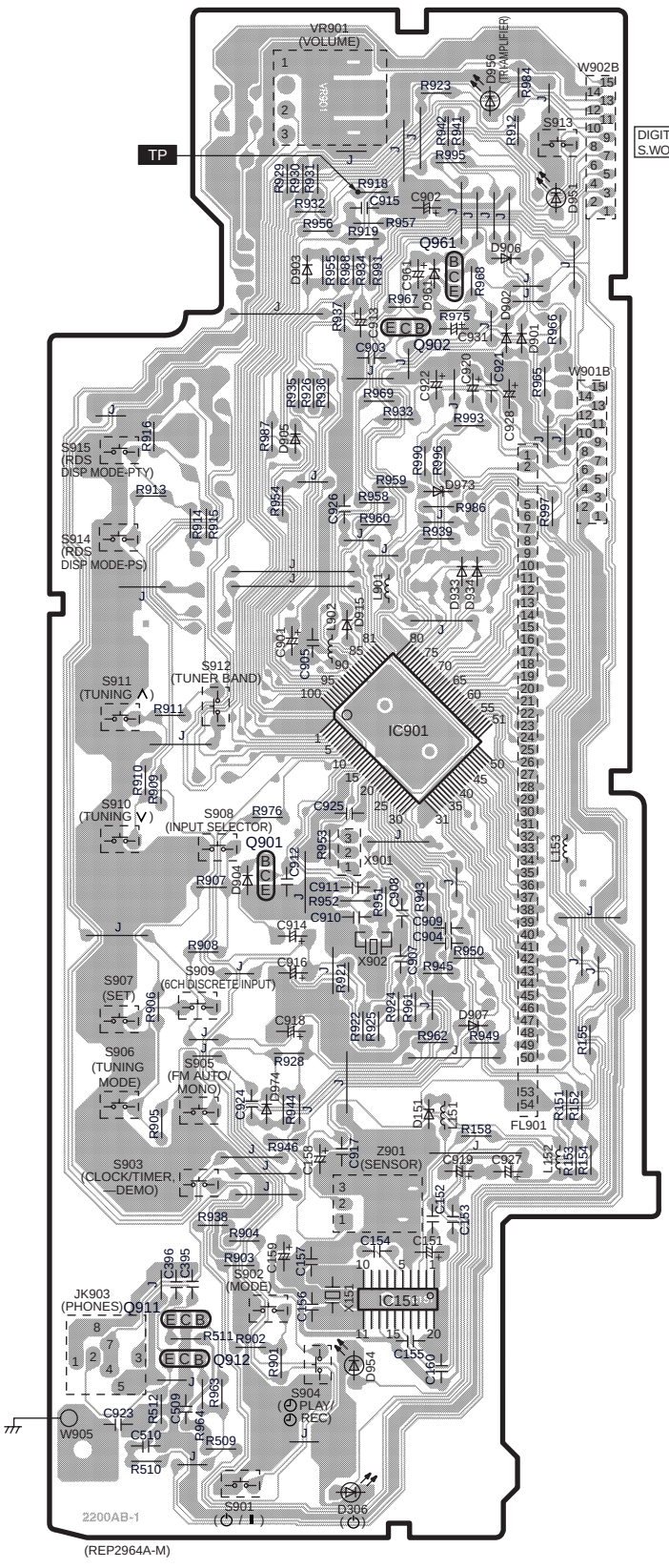

Q607
(Q608)
MUTING
Q606
MUTING
Q605
MUTING
LC72721NMTLM
IC151
RDS SIGNAL
DEMODULATOR
VREF
FLOUT
CIN
+B2
VDD
REFERENCE
VOLTAGE
Vss
VREF
PLL
(57kHz)
CLOCK
RECOVERY
(1187.5Hz)
MPX IN
ANTIALIASING
FILTER
57kHz
BPF
(SCF)
SMOOTHING
FILTER
DATA
DECODER
RDCL
RDDA
PCL
RDS-ID
IDR
RDS-ID
DETECT
CLK(4.332MHz)
OSC/DIVIDER
T1
T2
T3
T4
TEST
XIN
XOUT
STDBY
X151
DET
VR901
(VOLUME)
X901
(6MHz)
X902
(32.7kHz)
Z901
REMOTE
SENSOR
+B9
MUTE2
VR JOGA
VR JOGB
XC IN
XC OUT
X IN
X OUT
REMO-
CON
RDS DATA
RDS CLK
MUTE2
LC8A524A5N28
IC901
SYSTEM CONTROL / FL DRIVE
CRT
TIMER
1-7G
P1~35
REGIN0
REGIN1
TIMER
S.W LED
STANDBY
D903
FL901
FL DISPLAY
D933,934
D954
(PLAY/REC)
D951
(DIGITAL
S.WOOFER)
D306


RSN311W64A
IC601
POWER AMP
19 (18)
20
3
+B8
6
D601
+B3
15
POWER CONTROL CIRCUIT
26 (25)
23
22
24
1 (2)
5
11 (12)
8
9
14
POWER CONTROL/ PROTECTION CIRCUIT
13
21
4
GND
10
16
7
D602
-B1
-B2
Q601,602
SWITCH-ING
Q551,554,555
SIGNAL LEVEL DET
MUTING
Q911 (Q912)
Q902,961
MUTING CONT
-VP
MUTE2
POWER
+B4
Q503,558
SWITCH-ING
D906
D907
D974
HEADPHONES
R ch
SURROUND SPEAKERS
RLY605
+B11
CENTER SPEAKERS (8Ω)
RLY602
+B11
HIGH (6Ω)
MID (6Ω)
LOW (8Ω)
SPEAKERS
Q618
RELAY DRIVE
Q617
RELAY DRIVE
/ECO
POWER
AC IN
87
86
11
98
85
51
26
6
7
/ECO
POWER
AC IN
E DET
MUTE
-VP
HP SW
RL1
RL2
LC8A524A5N28
IC901
SYSTEM CONTROL / FL DRIVE
KEY TU
KEY KARAOKE
RESET
Vss
Vss2
VDD2
VDD1
VDD3
VDD4
CHECK
19
20
12
15
89
90
18
46
72
1
TP
KEY SWITCH (S901~915)
Q901, D904
RESET
+B9
D901
D902
+B7
+B7



NOTES : ● SIGNAL LINE
: FM SIGNAL
: AM SIGNAL
: FM OSC SIGNAL
: AM OSC SIGNAL
: SOURCE SIGNAL
: CENTER SP. DRIVE SIGNAL
: SURROUND SP. DRIVE SIGNAL
● ( ) indicates pin No. Right channel.

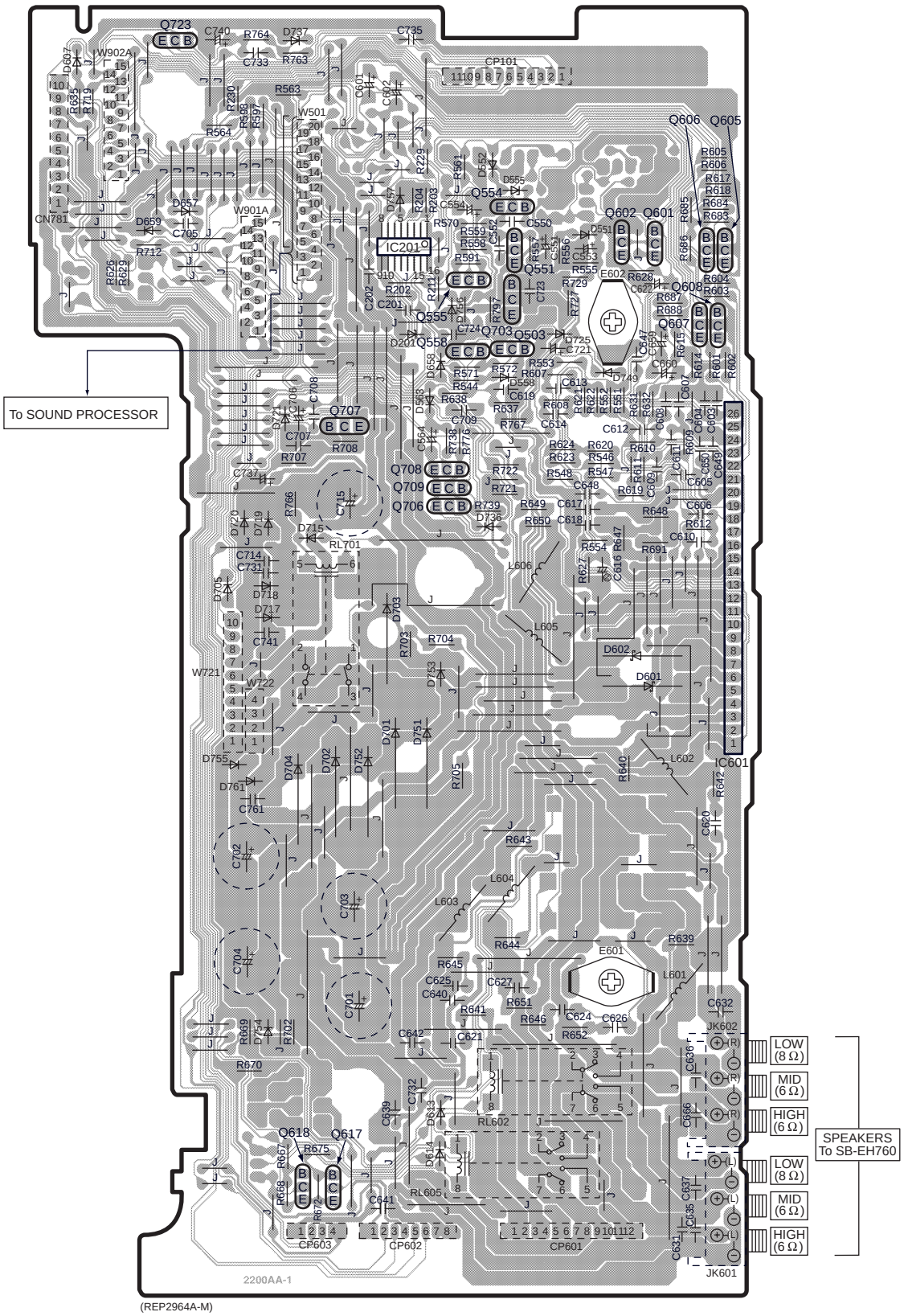
A OPERATION P.C.B.



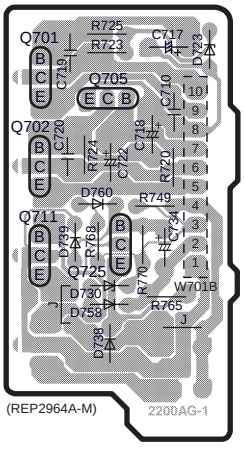
■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
A OPERATION P.C.B.					
IC151	7C	R510	8A	R966	3C
IC901	4C	R511	7B	R967	2C
Q901	5B	R512	8A	R968	2C
Q902	3C	R901	7B	R969	3C
Q911	7B	R902	7B	R975	3C
Q912	7B	R903	7B	R976	5B
Q961	2C	R904	7B	R984	1C
D151	6C	R905	6A	R986	3C
D306	8B	R906	6A	R987	3B
D901	3C	R907	5B	R988	2B
D902	3C	R908	6B	R990	3C
D903	2B	R909	5A	R991	2B
D904	5B	R910	5A	R993	3C
D905	3B	R911	4B	R995	2C
D906	2C	R912	2C	R996	3C
D907	6C	R913	3A	R997	3C
D915	4B	R914	4B	C151	7C
D933	4C	R915	4B	C152	7C
D934	4C	R916	3A	C153	7C
D951	2C	R918	2B	C154	7C
D954	7B	R919	2B	C155	7C
D956	1C	R921	6B	C156	7B
D961	2C	R922	6B	C157	7B
D973	3C	R923	1C	C158	7B
D974	6B	R924	6C	C159	7B
VR901	1B	R925	6C	C160	7C
L151	6C	R926	3B	C395	7B
L152	7C	R928	6B	C396	7B
L153	5C	R929	2B	C509	8B
L901	4C	R930	2B	C510	8A
L902	4B	R931	2B	C901	4B
Z901	7C	R932	2B	C902	2C
X151	7B	R933	3C	C903	3B
X901	5B	R934	2B	C904	5C
X902	6B	R935	3B	C905	4B
FL901	6C	R936	3B	C907	6C
S901	8B	R937	3B	C908	5C
S902	7B	R938	7B	C909	5C
S903	7B	R939	4C	C910	5B
S904	8B	R941	2C	C911	5B
S905	6B	R942	2C	C912	5B
S906	6A	R943	5C	C913	3B
S907	6A	R944	6B	C914	5B
S908	5B	R945	6C	C915	2B
S909	6B	R946	6B	C916	6B
S910	5A	R949	6C	C917	6B
S911	4A	R950	6C	C918	6B
S912	4B	R951	5C	C919	7C
S913	2C	R952	5B	C920	3C
S914	4A	R953	5B	C921	3C
S915	3A	R954	3B	C922	3C
JK903	7A	R955	2B	C923	8A
W901B	3D	R956	2B	C924	6B
W902B	2D	R957	2B	C925	5B
W905	8A	R958	3B	C926	3B
R151	6C	R959	3C	C927	7C
R152	6C	R960	4C	C928	3C
R153	7C	R961	6C	C931	3C
R154	7D	R962	6C	C961	2C
R155	6D	R963	8B		
R158	6C	R964	8B		
R509	8B	R965	3C		

B MAIN P.C.B.


To SOUND PROCESSOR
IC201
IC601
Q723
Q606
Q605
Q602
Q601
Q554
Q551
Q555
Q608
Q607
Q703
Q503
Q558
Q707
Q708
Q709
Q706
Q618
Q617
CP101
CP603
CP602
CP601
JK602
JK601
RL701
RL602
RL605
L601
L602
L603
L604
L605
L606
E601
E602
LOW (8 Ω)
MID (6 Ω)
HIGH (6 Ω)
LOW (8 Ω)
MID (6 Ω)
HIGH (6 Ω)
SPEAKERS To SB-EH760
2200AA-1
(REP2964A-M)

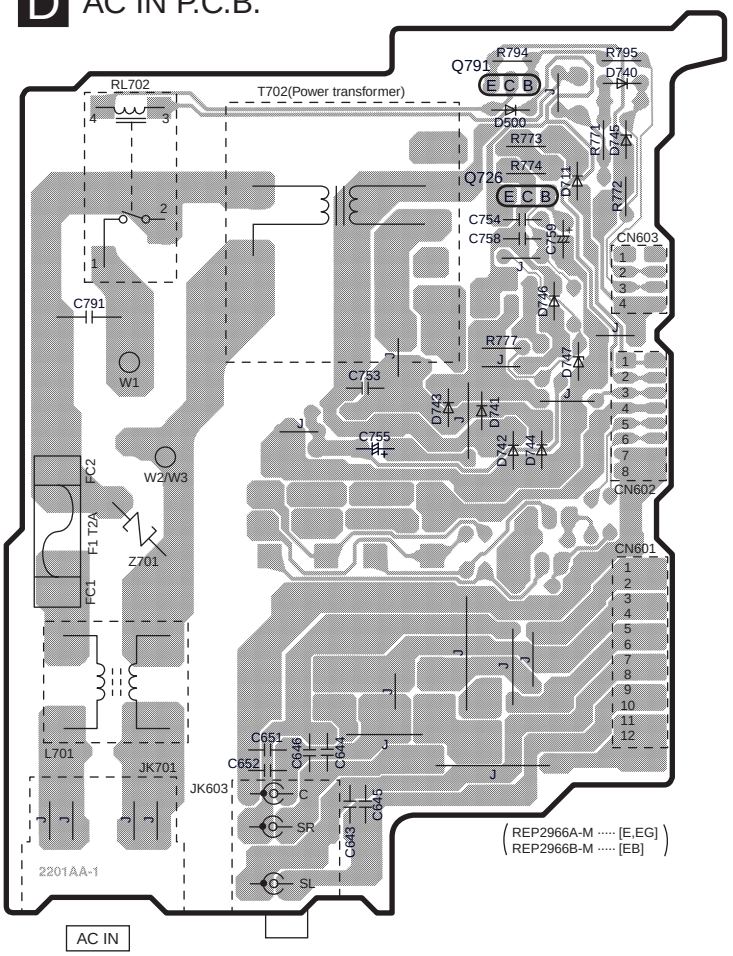
C POWER SUPPLY P.C.B.



■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
B MAIN P.C.B.															
IC201	2D	D658	3D	RL701	5C	R559	2D	R627	4E	R688	3E	C604	3E	C649	4E
IC601	5F	D659	2B	CN781	2B	R561	2D	R628	3E	R691	4E	C605	4E	C650	4E
Q503	3D	D701	5D	CP101	1D	R563	2C	R629	3B	R702	7C	C606	4E	C659	3E
Q551	2D	D702	5C	CP601	8E	R564	2C	R631	3E	R703	5D	C607	3E	C660	3E
Q554	2D	D703	4D	CP602	8D	R570	2D	R632	3E	R704	5D	C608	3E	C666	7E
Q555	3D	D704	5C	CP603	8C	R571	3D	R635	2B	R705	5D	C609	4E	C701	7C
Q558	3D	D705	4C	JK601	8E	R572	3D	R637	3D	R707	4C	C610	4E	C702	6C
Q601	2E	D715	4C	JK602	7E	R591	2D	R638	3D	R708	4C	C611	4E	C703	6C
Q602	2E	D717	4C	E601	7E	R597	2C	R639	6E	R712	2B	C612	3E	C704	6C
Q605	2E	D718	4C	E602	3E	R598	2C	R640	5E	R719	2B	C613	3E	C705	2B
Q606	2E	D719	4C	W501	2C	R601	3E	R641	7D	R721	4D	C614	3E	C706	3C
Q607	3E	D720	4C	W721	5C	R602	3E	R642	5E	R722	4D	C616	4E	C707	4C
Q608	3E	D721	3C	W722	5C	R603	3E	R643	6D	R727	3E	C617	4E	C708	3C
Q617	8C	D725	3E	W901A	3C	R604	3E	R644	6D	R729	3E	C618	4E	C709	3D
Q618	8C	D736	4D	W902A	2B	R605	2E	R645	6D	R738	3D	C619	3D	C714	4C
Q703	3D	D737	1C	R202	3D	R606	2E	R646	7D	R739	4D	C620	6E	C715	4C
Q706	4D	D749	3E	R203	2D	R607	3E	R647	4E	R763	1C	C621	7D	C721	3E
Q707	3C	D751	5D	R204	2D	R608	3E	R648	4E	R764	1C	C622	3E	C723	3D
Q708	4D	D752	5C	R211	3D	R609	4E	R649	4D	R766	4C	C624	7E	C724	3D
Q709	4D	D753	5D	R229	2D	R610	4E	R650	4D	R767	3D	C625	7D	C731	4C
Q723	1B	D754	7C	R230	2C	R611	4E	R651	7D	R776	3D	C626	7E	C732	7D
D201	3D	D755	5C	R544	3D	R612	4E	R652	7E	R797	3D	C627	7D	C733	1C
D551	2E	D756	3D	R546	4E	R614	3E	R667	8C	C201	3D	C631	8E	C735	1D
D552	2D	D757	2D	R547	4E	R615	3E	R668	8C	C202	3C	C632	7E	C737	4C
D555	2D	D761	5C	R548	4E	R617	2E	R669	7C	C550	2D	C635	8E	C740	1C
D558	3D	L601	7E	R551	3E	R618	2E	R670	7C	C551	2D	C636	7E	C741	5C
D563	3D	L602	5E	R552	3E	R619	4E	R672	8C	C552	2D	C637	8E	C761	6C
D601	5E	L603	6D	R553	3E	R620	4E	R675	7C	C553	2E	C639	7D		
D602	5E	L604	6D	R554	4E	R621	3E	R683	2E	C554	2D	C640	7D		
D607	1B	L605	5D	R555	3E	R622	3E	R684	2E	C564	3D	C641	8D		
D613	7D	L606	4D	R556	2E	R623	4E	R685	2E	C601	2C	C642	7D		
D614	7D	RL602	7E	R557	2D	R624	4E	R686	2E	C602	2D	C647	3E		
D657	2B	RL605	8D	R558	2D	R626	3B	R687	3E	C603	3E	C648	4E		
C POWER SUPPLY P.C.B.															
Q701	2I	Q725	2I	D739	2I	R720	2I	R749	2I	C710	2I	C720	2I		
Q702	2I	D723	2I	D758	3I	R723	2I	R765	3I	C717	2I	C722	2I		
Q705	2I	D730	3I	D760	2I	R724	2I	R768	2I	C718	2I	C734	2I		
Q711	2I	D738	3I	W701B	2I	R725	1I	R770	2I	C719	2I				

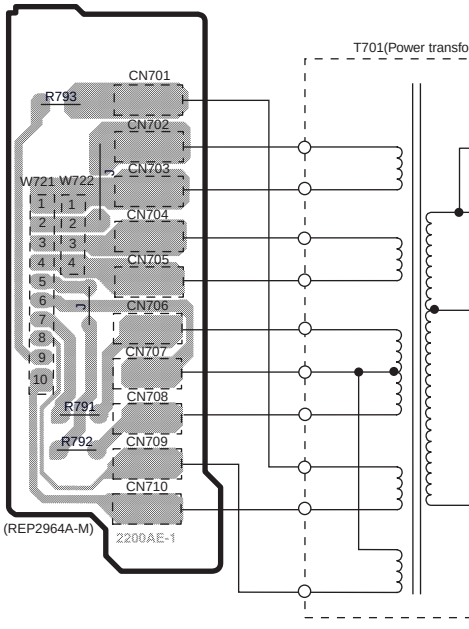
D AC IN P.C.B.



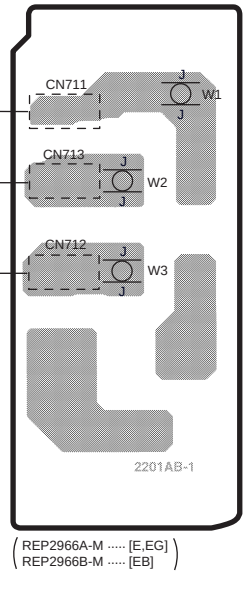
■ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
D SPEAKER TERMINAL P.C.B.			
Q726	2D	FC2	3A
Q791	1C	W1	2B
D500	1C	W2/W3	3B
D711	2D	R771	1D
D740	1D	R772	2D
D741	3C	R773	1D
D742	3D	R774	2D
D743	3C	R777	2C
D744	3D	R794	1C
D745	1D	R795	1D
D746	2D	C643	4C
D747	2D	C644	4C
L701	4B	C645	4C
T702	2C	C646	4C
Z701	3B	C651	4B
F1	3A	C652	4B
RL702	2B	C753	3C
CN601	4D	C754	2D
CN602	3D	C755	3C
CN603	2D	C758	2D
JK603	5B	C759	2D
JK701	5B	C791	2B
FC1	3A		
E POWER TRANSFORMER(A) P.C.B.			
CN701	6B	CN709	8B
CN702	6B	CN710	8B
CN703	7B	W721	7A
CN704	7B	W722	7A
CN705	7B	R791	8A
CN706	7B	R792	8A
CN707	7B	R793	6A
CN708	8B		
F POWER TRANSFORMER(B) P.C.B.			
CN711	6D	W1	6E
CN712	7D	W2	7E
CN713	7D	W3	7E

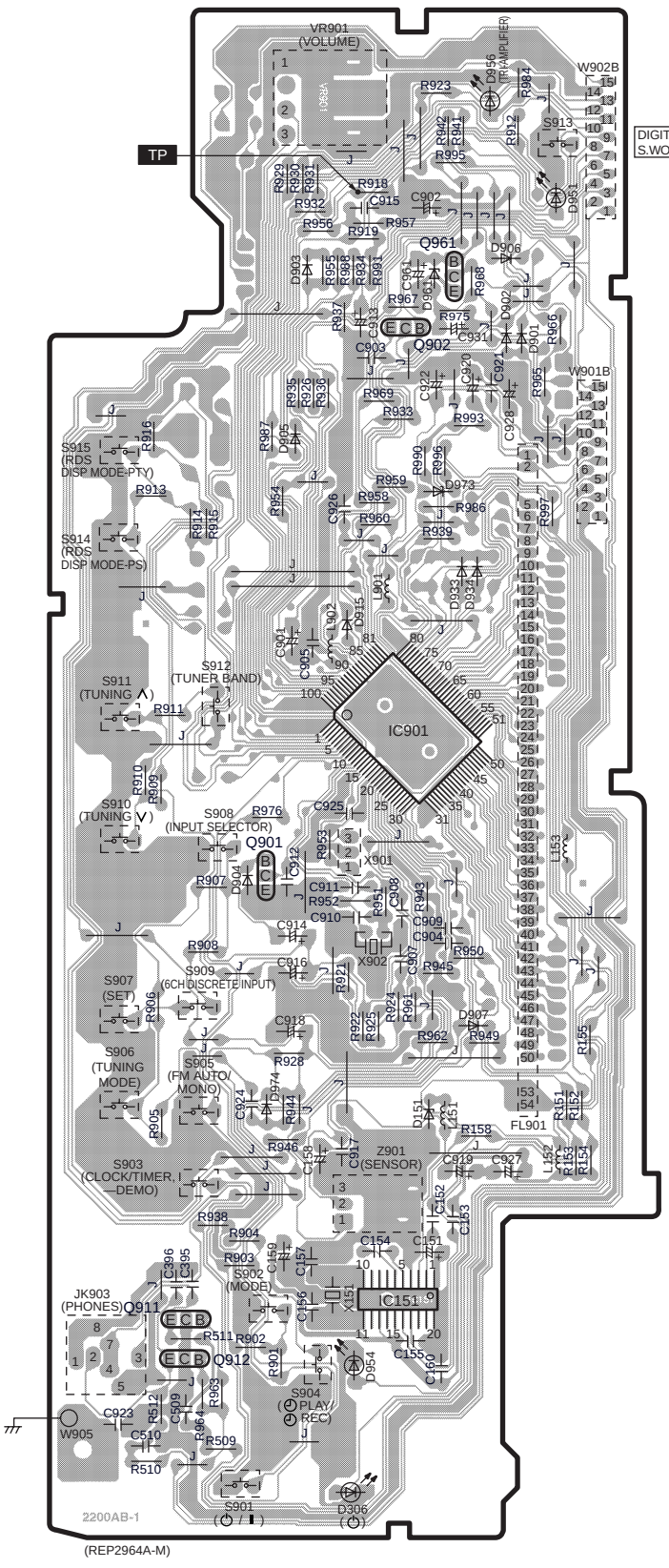
E POWER TRANSFORMER (A) P.C.B.



F POWER TRANSFORMER (B) P.C.B.



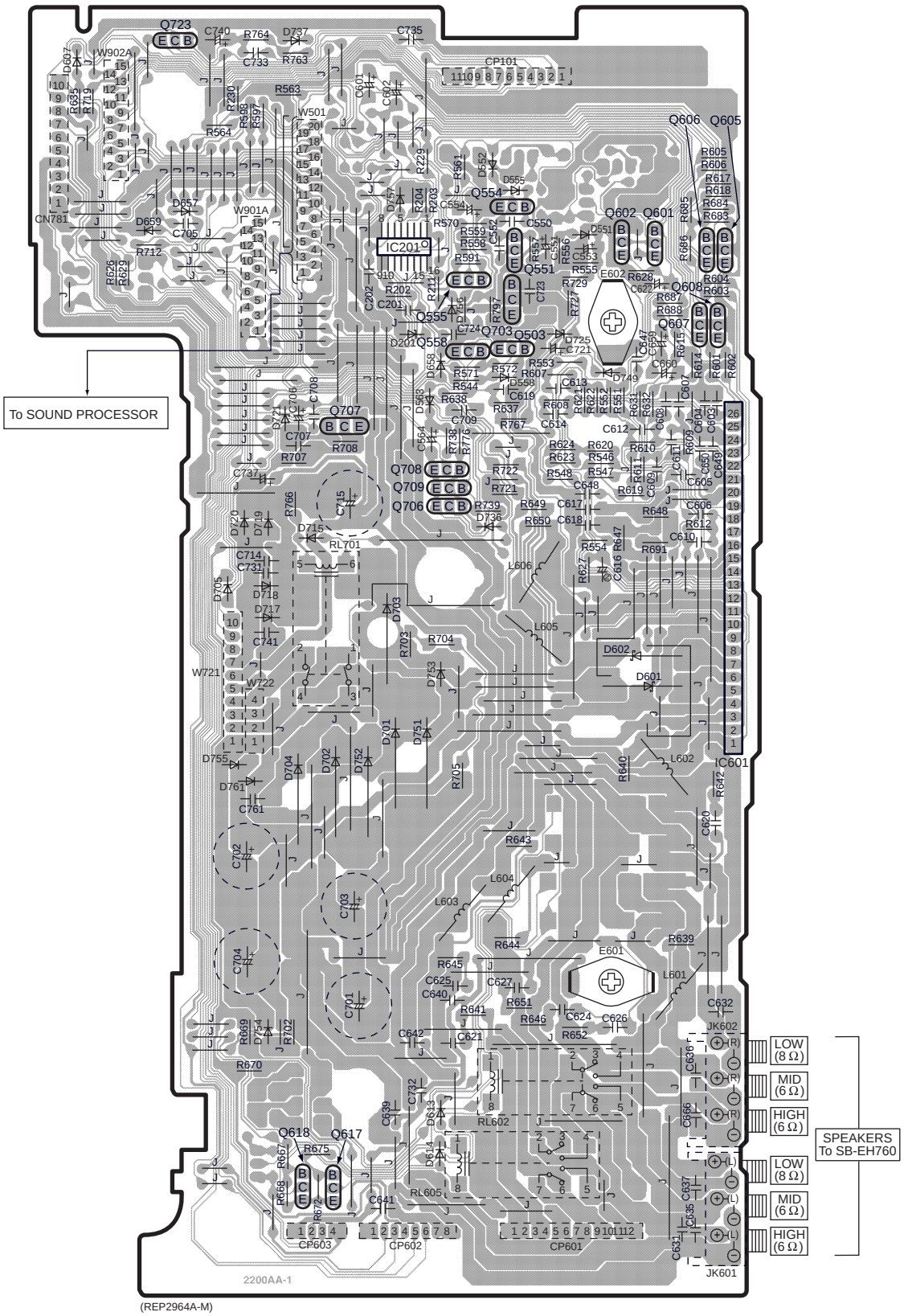
A OPERATION P.C.B.



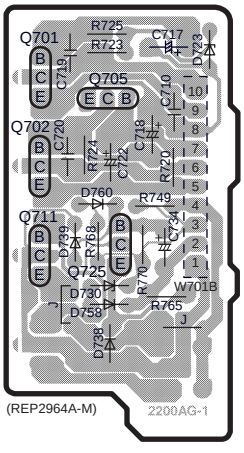
■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
A OPERATION P.C.B.					
IC151	7C	R510	8A	R966	3C
IC901	4C	R511	7B	R967	2C
Q901	5B	R512	8A	R968	2C
Q902	3C	R901	7B	R969	3C
Q911	7B	R902	7B	R975	3C
Q912	7B	R903	7B	R976	5B
Q961	2C	R904	7B	R984	1C
D151	6C	R905	6A	R986	3C
D306	8B	R906	6A	R987	3B
D901	3C	R907	5B	R988	2B
D902	3C	R908	6B	R990	3C
D903	2B	R909	5A	R991	2B
D904	5B	R910	5A	R993	3C
D905	3B	R911	4B	R995	2C
D906	2C	R912	2C	R996	3C
D907	6C	R913	3A	R997	3C
D915	4B	R914	4B	C151	7C
D933	4C	R915	4B	C152	7C
D934	4C	R916	3A	C153	7C
D951	2C	R918	2B	C154	7C
D954	7B	R919	2B	C155	7C
D956	1C	R921	6B	C156	7B
D961	2C	R922	6B	C157	7B
D973	3C	R923	1C	C158	7B
D974	6B	R924	6C	C159	7B
VR901	1B	R925	6C	C160	7C
L151	6C	R926	3B	C395	7B
L152	7C	R928	6B	C396	7B
L153	5C	R929	2B	C509	8B
L901	4C	R930	2B	C510	8A
L902	4B	R931	2B	C901	4B
Z901	7C	R932	2B	C902	2C
X151	7B	R933	3C	C903	3B
X901	5B	R934	2B	C904	5C
X902	6B	R935	3B	C905	4B
FL901	6C	R936	3B	C907	6C
S901	8B	R937	3B	C908	5C
S902	7B	R938	7B	C909	5C
S903	7B	R939	4C	C910	5B
S904	8B	R941	2C	C911	5B
S905	6B	R942	2C	C912	5B
S906	6A	R943	5C	C913	3B
S907	6A	R944	6B	C914	5B
S908	5B	R945	6C	C915	2B
S909	6B	R946	6B	C916	6B
S910	5A	R949	6C	C917	6B
S911	4A	R950	6C	C918	6B
S912	4B	R951	5C	C919	7C
S913	2C	R952	5B	C920	3C
S914	4A	R953	5B	C921	3C
S915	3A	R954	3B	C922	3C
JK903	7A	R955	2B	C923	8A
W901B	3D	R956	2B	C924	6B
W902B	2D	R957	2B	C925	5B
W905	8A	R958	3B	C926	3B
R151	6C	R959	3C	C927	7C
R152	6C	R960	4C	C928	3C
R153	7C	R961	6C	C931	3C
R154	7D	R962	6C	C961	2C
R155	6D	R963	8B		
R158	6C	R964	8B		
R509	8B	R965	3C		

B MAIN P.C.B.


To SOUND PROCESSOR
IC201
IC601
Q723
Q606
Q605
Q602
Q601
Q554
Q551
Q555
Q608
Q607
Q703
Q503
Q558
Q707
Q708
Q709
Q706
Q618
Q617
CP101
CP603
CP602
CP601
JK602
JK601
RL701
RL602
RL605
L601
L602
L603
L604
L605
L606
E601
E602
LOW (8 Ω)
MID (6 Ω)
HIGH (6 Ω)
LOW (8 Ω)
MID (6 Ω)
HIGH (6 Ω)
SPEAKERS To SB-EH760
2200AA-1
(REP2964A-M)

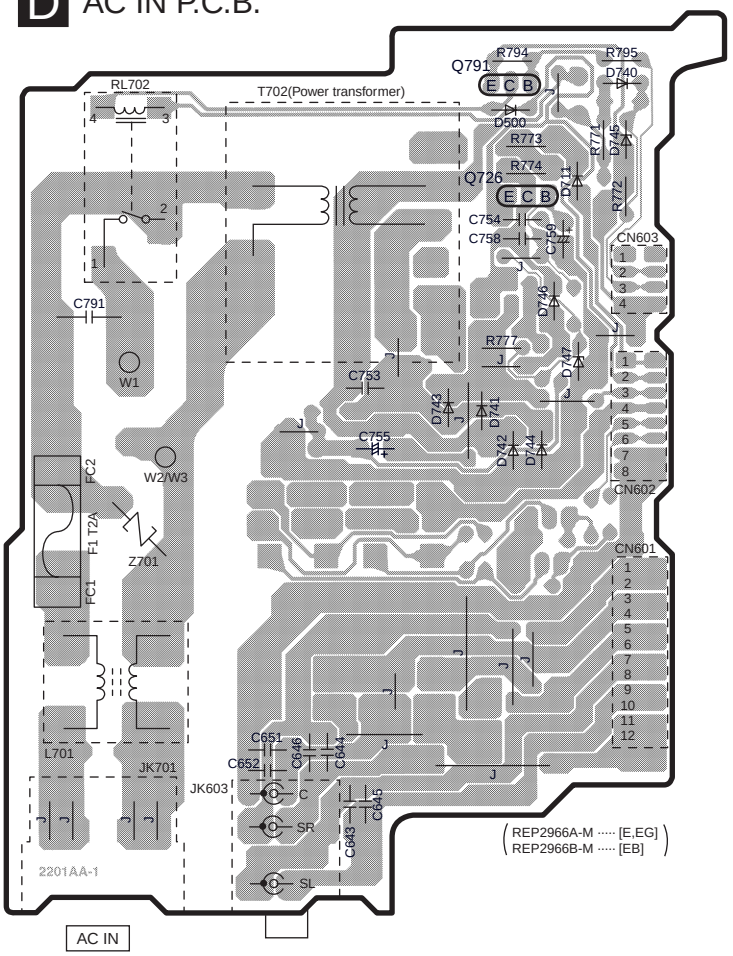
C POWER SUPPLY P.C.B.



■ ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
B MAIN P.C.B.															
IC201	2D	D658	3D	RL701	5C	R559	2D	R627	4E	R688	3E	C604	3E	C649	4E
IC601	5F	D659	2B	CN781	2B	R561	2D	R628	3E	R691	4E	C605	4E	C650	4E
Q503	3D	D701	5D	CP101	1D	R563	2C	R629	3B	R702	7C	C606	4E	C659	3E
Q551	2D	D702	5C	CP601	8E	R564	2C	R631	3E	R703	5D	C607	3E	C660	3E
Q554	2D	D703	4D	CP602	8D	R570	2D	R632	3E	R704	5D	C608	3E	C666	7E
Q555	3D	D704	5C	CP603	8C	R571	3D	R635	2B	R705	5D	C609	4E	C701	7C
Q558	3D	D705	4C	JK601	8E	R572	3D	R637	3D	R707	4C	C610	4E	C702	6C
Q601	2E	D715	4C	JK602	7E	R591	2D	R638	3D	R708	4C	C611	4E	C703	6C
Q602	2E	D717	4C	E601	7E	R597	2C	R639	6E	R712	2B	C612	3E	C704	6C
Q605	2E	D718	4C	E602	3E	R598	2C	R640	5E	R719	2B	C613	3E	C705	2B
Q606	2E	D719	4C	W501	2C	R601	3E	R641	7D	R721	4D	C614	3E	C706	3C
Q607	3E	D720	4C	W721	5C	R602	3E	R642	5E	R722	4D	C616	4E	C707	4C
Q608	3E	D721	3C	W722	5C	R603	3E	R643	6D	R727	3E	C617	4E	C708	3C
Q617	8C	D725	3E	W901A	3C	R604	3E	R644	6D	R729	3E	C618	4E	C709	3D
Q618	8C	D736	4D	W902A	2B	R605	2E	R645	6D	R738	3D	C619	3D	C714	4C
Q703	3D	D737	1C	R202	3D	R606	2E	R646	7D	R739	4D	C620	6E	C715	4C
Q706	4D	D749	3E	R203	2D	R607	3E	R647	4E	R763	1C	C621	7D	C721	3E
Q707	3C	D751	5D	R204	2D	R608	3E	R648	4E	R764	1C	C622	3E	C723	3D
Q708	4D	D752	5C	R211	3D	R609	4E	R649	4D	R766	4C	C624	7E	C724	3D
Q709	4D	D753	5D	R229	2D	R610	4E	R650	4D	R767	3D	C625	7D	C731	4C
Q723	1B	D754	7C	R230	2C	R611	4E	R651	7D	R776	3D	C626	7E	C732	7D
D201	3D	D755	5C	R544	3D	R612	4E	R652	7E	R797	3D	C627	7D	C733	1C
D551	2E	D756	3D	R546	4E	R614	3E	R667	8C	C201	3D	C631	8E	C735	1D
D552	2D	D757	2D	R547	4E	R615	3E	R668	8C	C202	3C	C632	7E	C737	4C
D555	2D	D761	5C	R548	4E	R617	2E	R669	7C	C550	2D	C635	8E	C740	1C
D558	3D	L601	7E	R551	3E	R618	2E	R670	7C	C551	2D	C636	7E	C741	5C
D563	3D	L602	5E	R552	3E	R619	4E	R672	8C	C552	2D	C637	8E	C761	6C
D601	5E	L603	6D	R553	3E	R620	4E	R675	7C	C553	2E	C639	7D		
D602	5E	L604	6D	R554	4E	R621	3E	R683	2E	C554	2D	C640	7D		
D607	1B	L605	5D	R555	3E	R622	3E	R684	2E	C564	3D	C641	8D		
D613	7D	L606	4D	R556	2E	R623	4E	R685	2E	C601	2C	C642	7D		
D614	7D	RL602	7E	R557	2D	R624	4E	R686	2E	C602	2D	C647	3E		
D657	2B	RL605	8D	R558	2D	R626	3B	R687	3E	C603	3E	C648	4E		
C POWER SUPPLY P.C.B.															
Q701	2I	Q725	2I	D739	2I	R720	2I	R749	2I	C710	2I	C720	2I		
Q702	2I	D723	2I	D758	3I	R723	2I	R765	3I	C717	2I	C722	2I		
Q705	2I	D730	3I	D760	2I	R724	2I	R768	2I	C718	2I	C734	2I		
Q711	2I	D738	3I	W701B	2I	R725	1I	R770	2I	C719	2I				

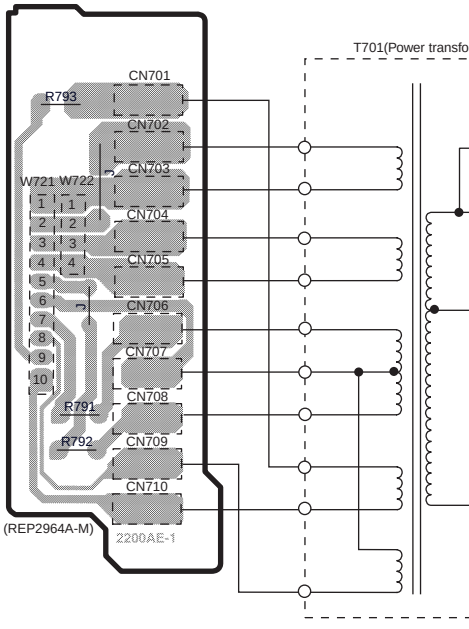
D AC IN P.C.B.



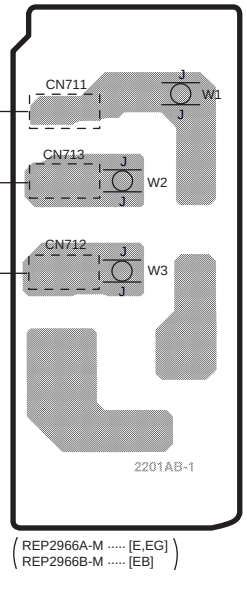
■ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.
D SPEAKER TERMINAL P.C.B.			
Q726	2D	FC2	3A
Q791	1C	W1	2B
D500	1C	W2/W3	3B
D711	2D	R771	1D
D740	1D	R772	2D
D741	3C	R773	1D
D742	3D	R774	2D
D743	3C	R777	2C
D744	3D	R794	1C
D745	1D	R795	1D
D746	2D	C643	4C
D747	2D	C644	4C
L701	4B	C645	4C
T702	2C	C646	4C
Z701	3B	C651	4B
F1	3A	C652	4B
RL702	2B	C753	3C
CN601	4D	C754	2D
CN602	3D	C755	3C
CN603	2D	C758	2D
JK603	5B	C759	2D
JK701	5B	C791	2B
FC1	3A		
E POWER TRANSFORMER(A) P.C.B.			
CN701	6B	CN709	8B
CN702	6B	CN710	8B
CN703	7B	W721	7A
CN704	7B	W722	7A
CN705	7B	R791	8A
CN706	7B	R792	8A
CN707	7B	R793	6A
CN708	8B		
F POWER TRANSFORMER(B) P.C.B.			
CN711	6D	W1	6E
CN712	7D	W2	7E
CN713	7D	W3	7E

E POWER TRANSFORMER (A) P.C.B.



F POWER TRANSFORMER (B) P.C.B.

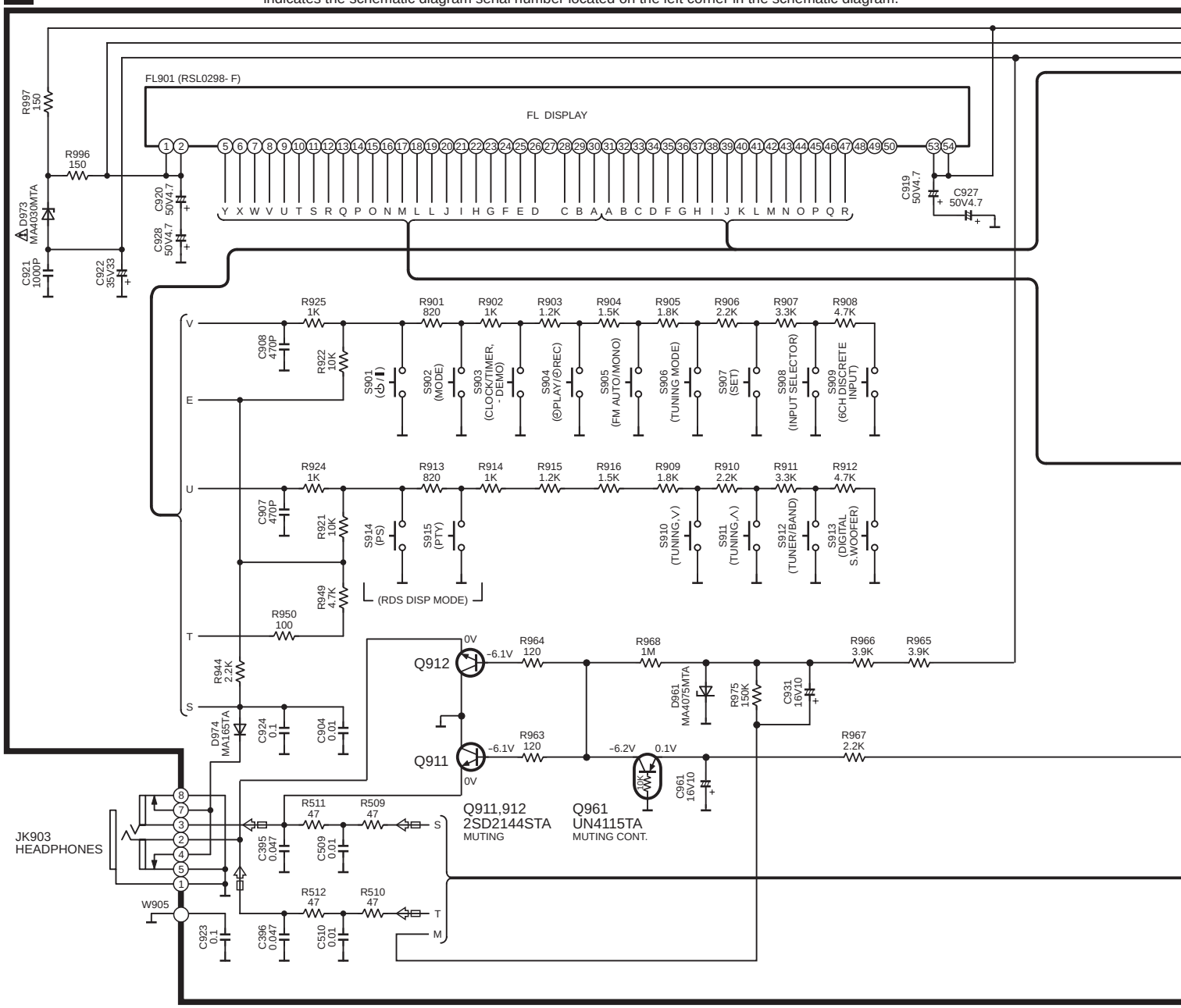


SCHEMATIC DIAGRAM- 1

A OPERATION CIRCUIT

NOTE:
The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

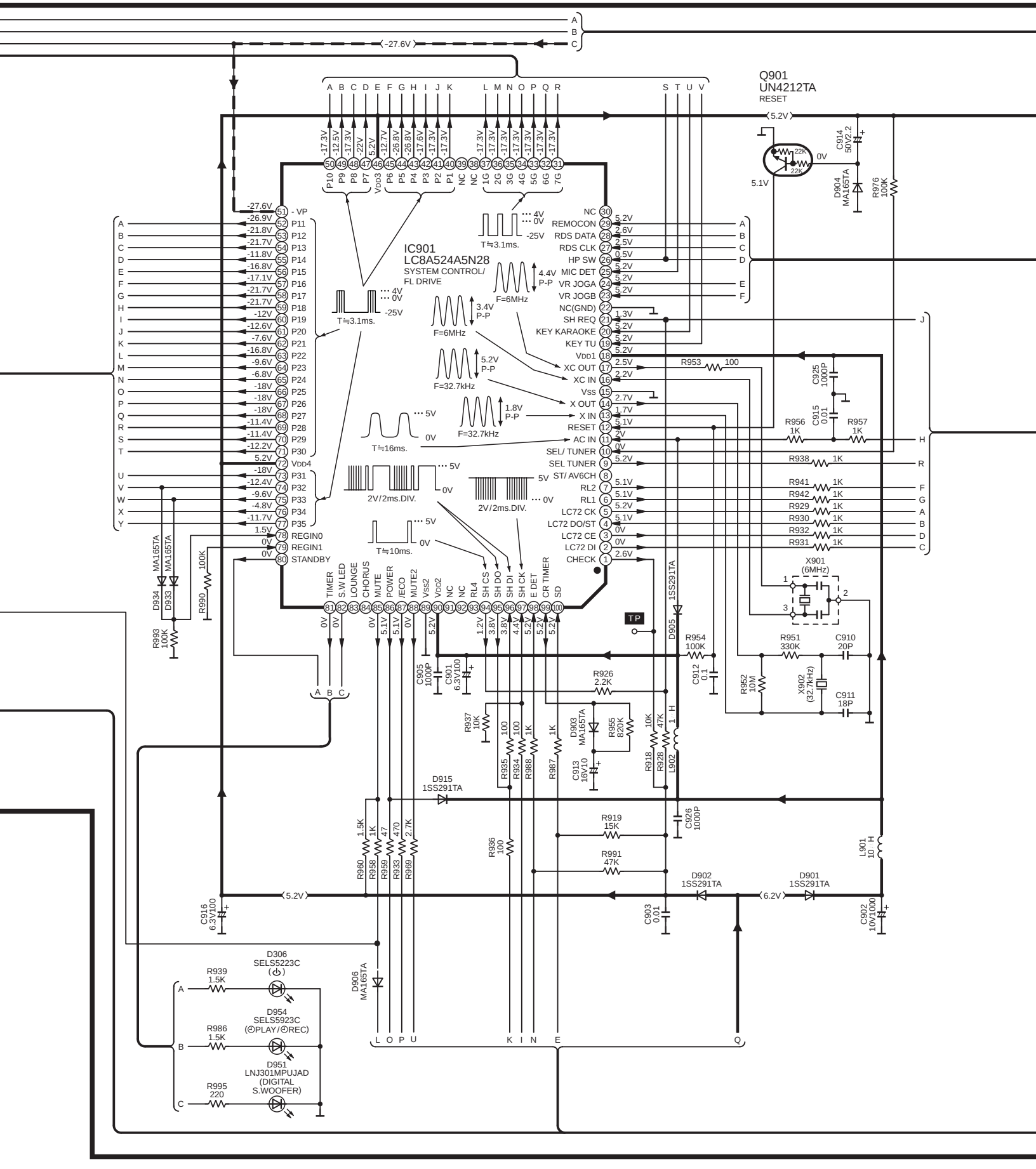
: SOURCE SIGNAL LINE



SCHEMATIC DIAGRAM- 2

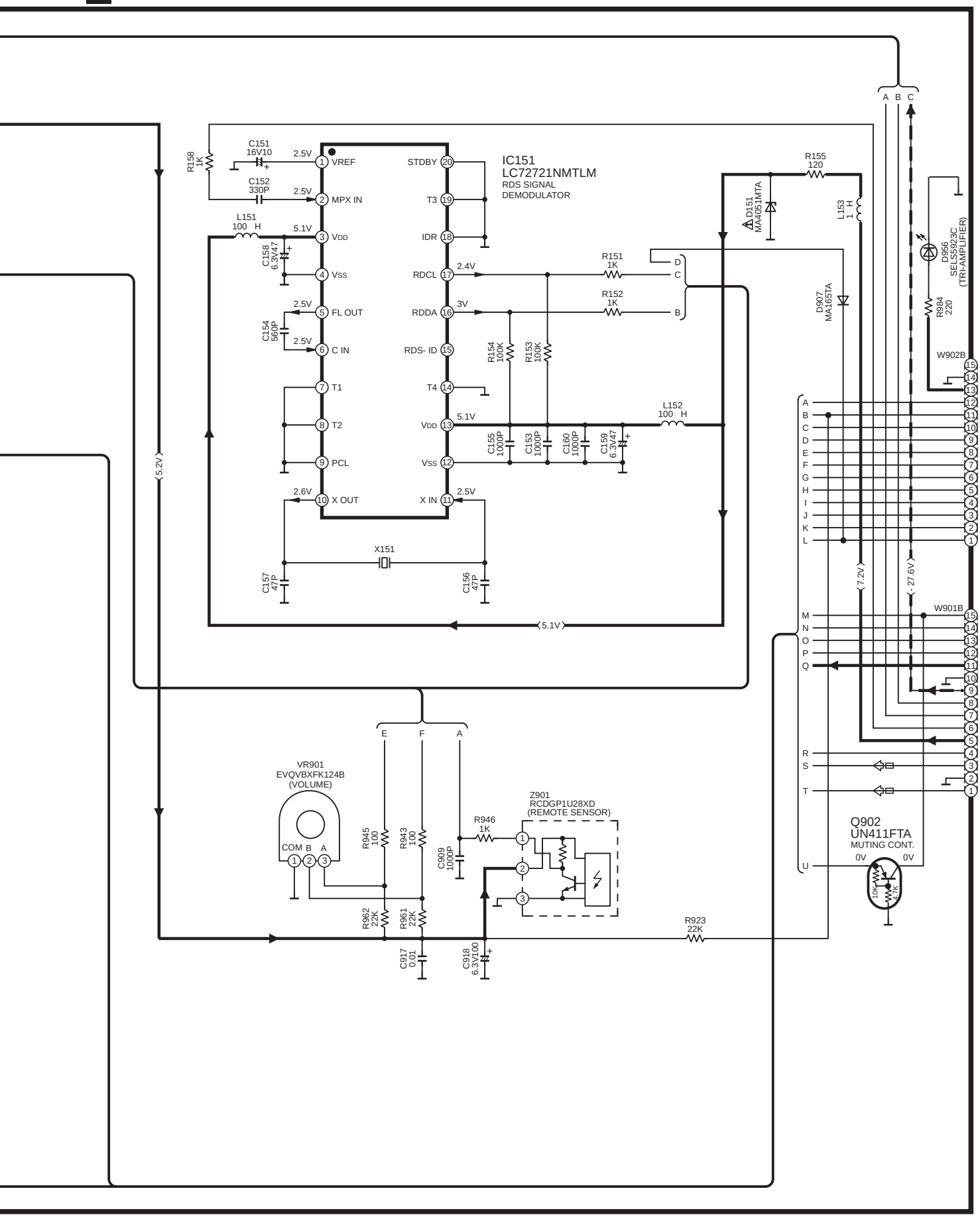
: POSITIVE VOLTAGE LINE

: NEGATIVE VOLTAGE LINE



SCHEMATIC DIAGRAM- 3
A OPERATION CIRCUIT

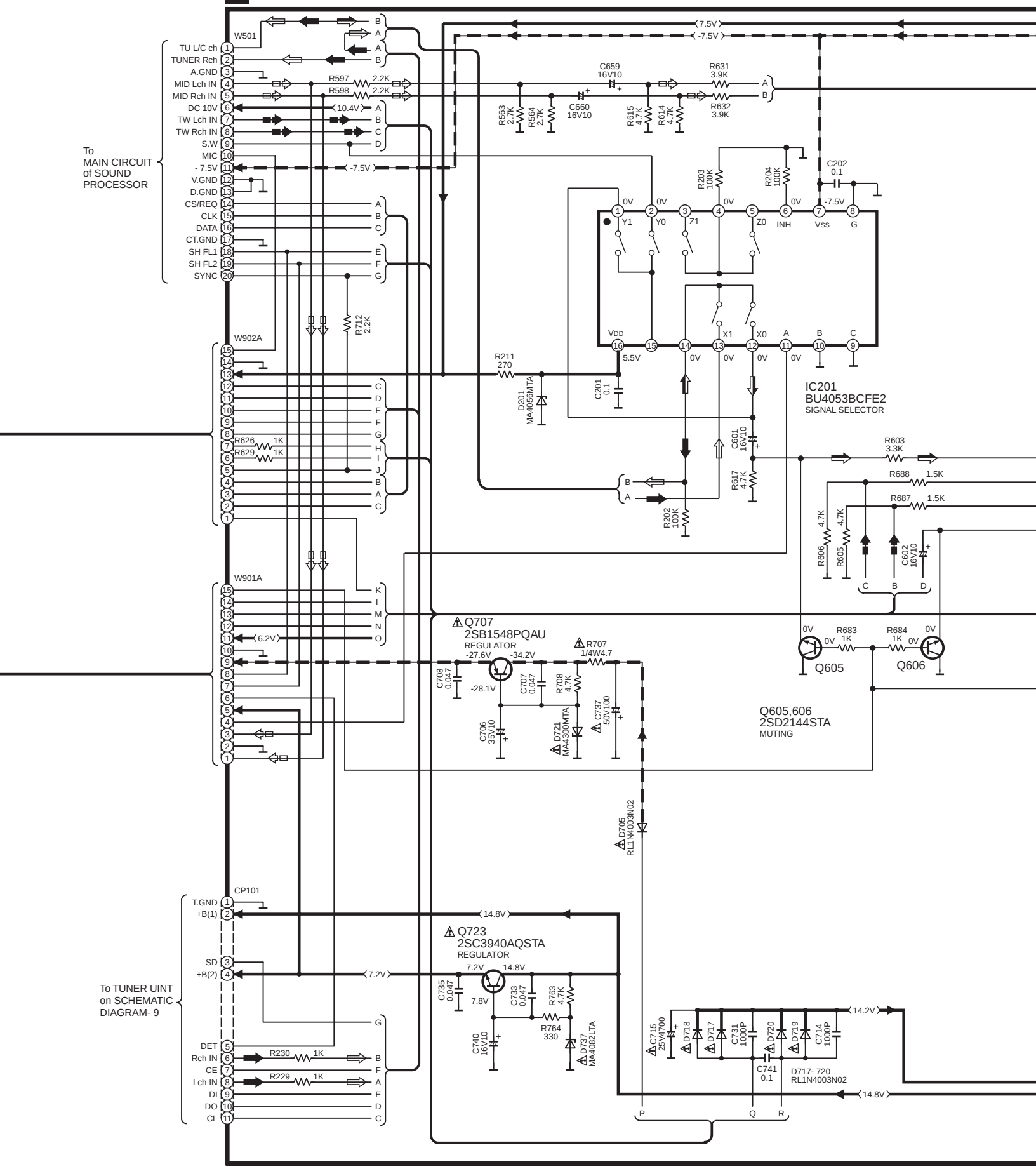
: POSITIVE VOLTAGE LINE
: NEGATIVE VOLTAGE LINE
: SOURCE SIGNAL LINE



SCHEMATIC DIAGRAM- 4

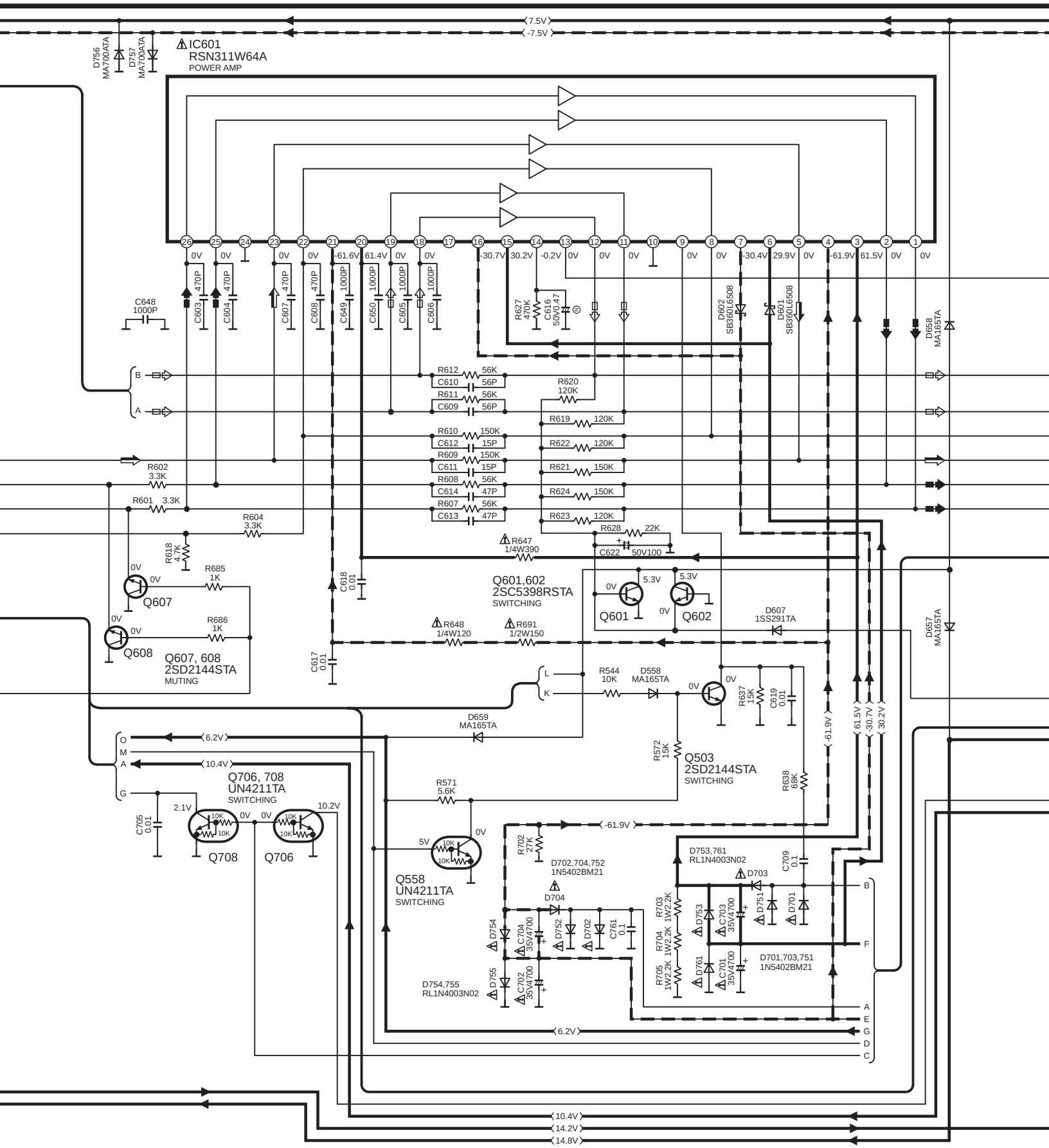
B MAIN CIRCUIT

: POSITIVE VOLTAGE LINE : NEGATIVE VOLTAGE LINE : FM SIGNAL LINE : AM SIGNAL LINE : SURROUND SP.DRIVE SIGNAL LINE : CENTER SP.DRIVE SIGNAL LINE : SOURCE SIGNAL LINE



SCHEMATIC DIAGRAM- 5

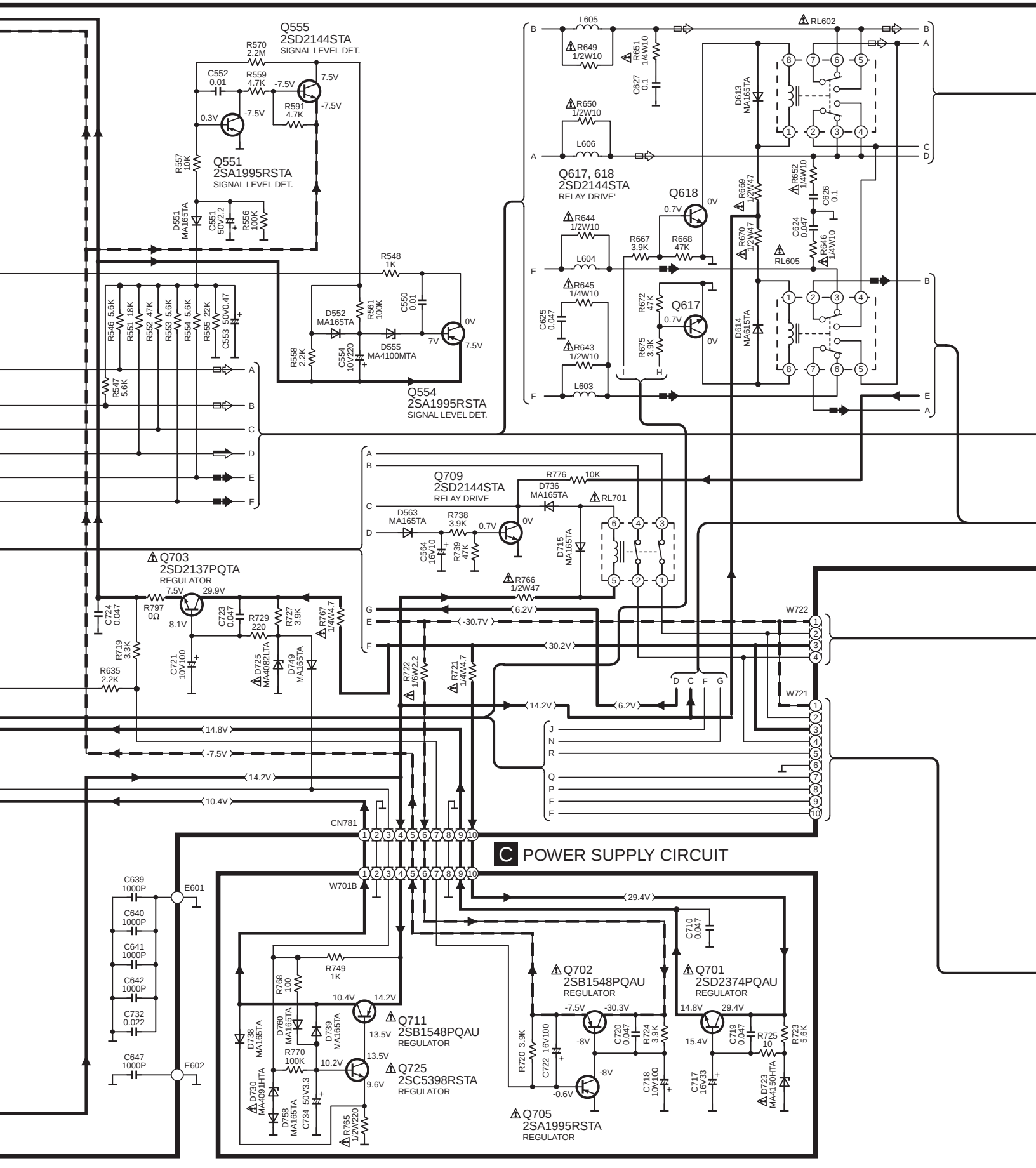
: POSITIVE VOLTAGE LINE
: NEGATIVE VOLTAGE LINE
: SURROUND SP.DRIVE SIGNAL LINE
: CENTER SP.DRIVE SIGNAL LINE
: SOURCE SIGNAL LINE



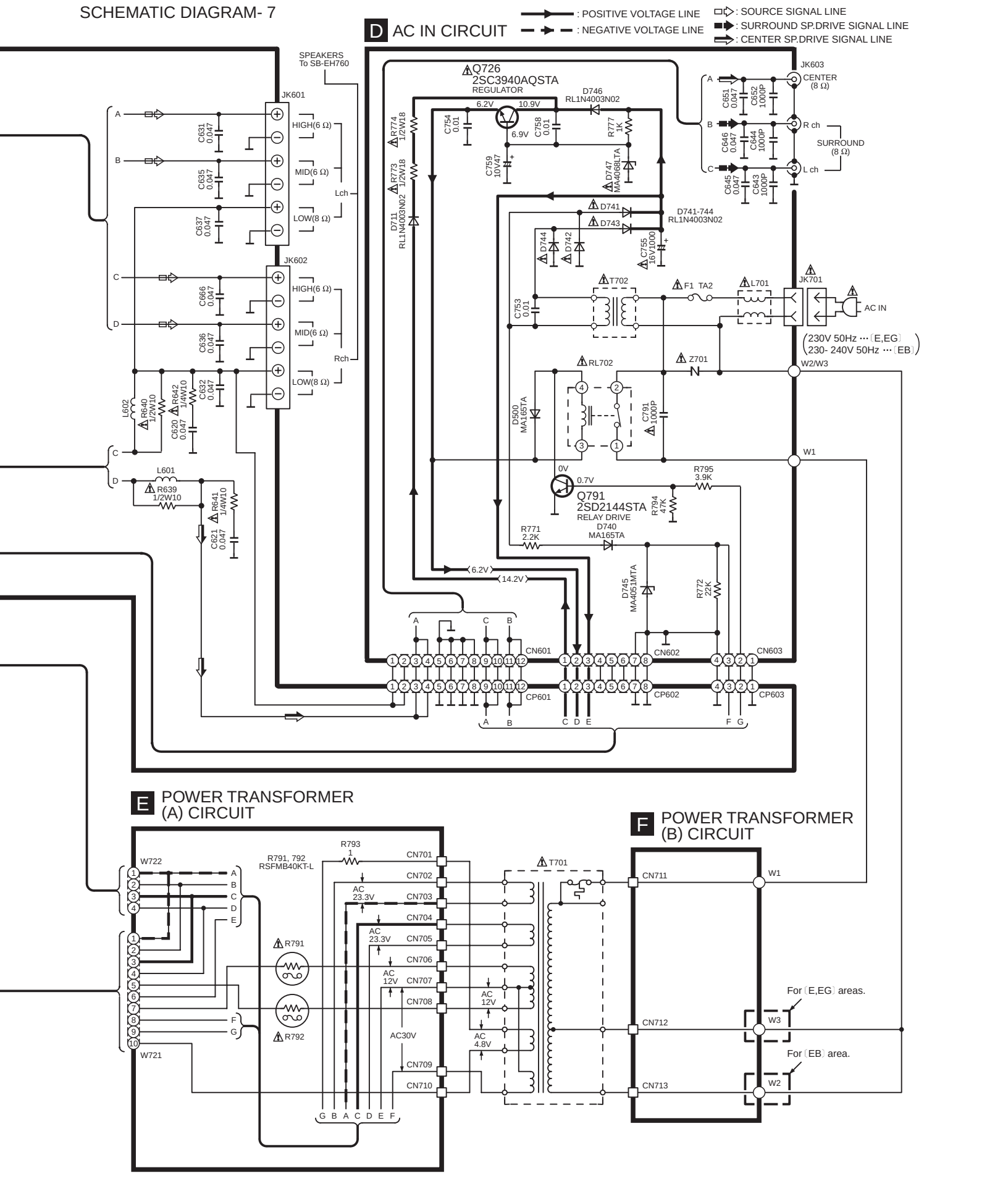
SCHEMATIC DIAGRAM-6

B MAIN CIRCUIT

: POSITIVE VOLTAGE LINE
: NEGATIVE VOLTAGE LINE
: SURROUND SP.DRIVE SIGNAL LINE
: CENTER SP.DRIVE SIGNAL LINE
: SOURCE SIGNAL LINE



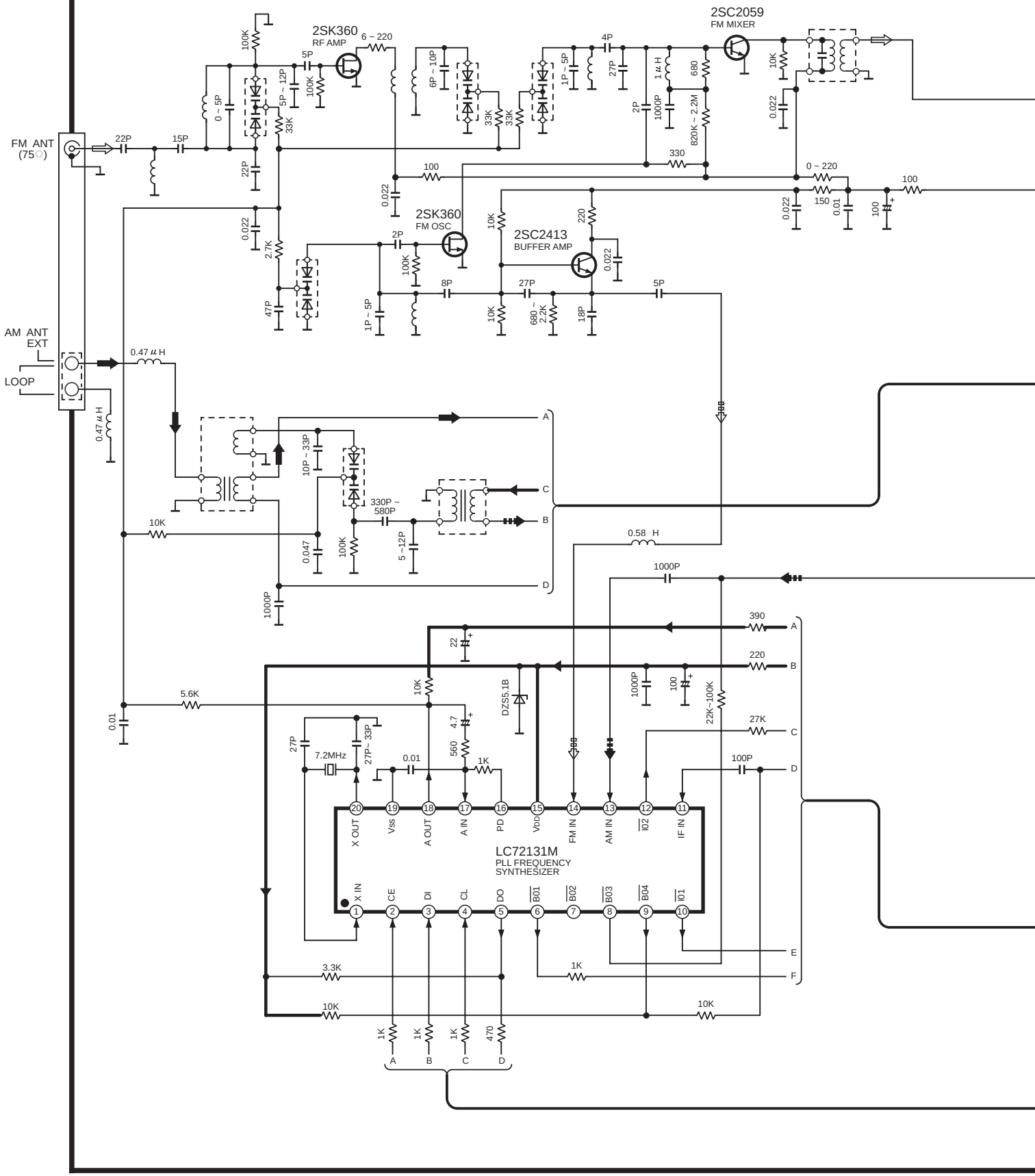
SCHEMATIC DIAGRAM- 7



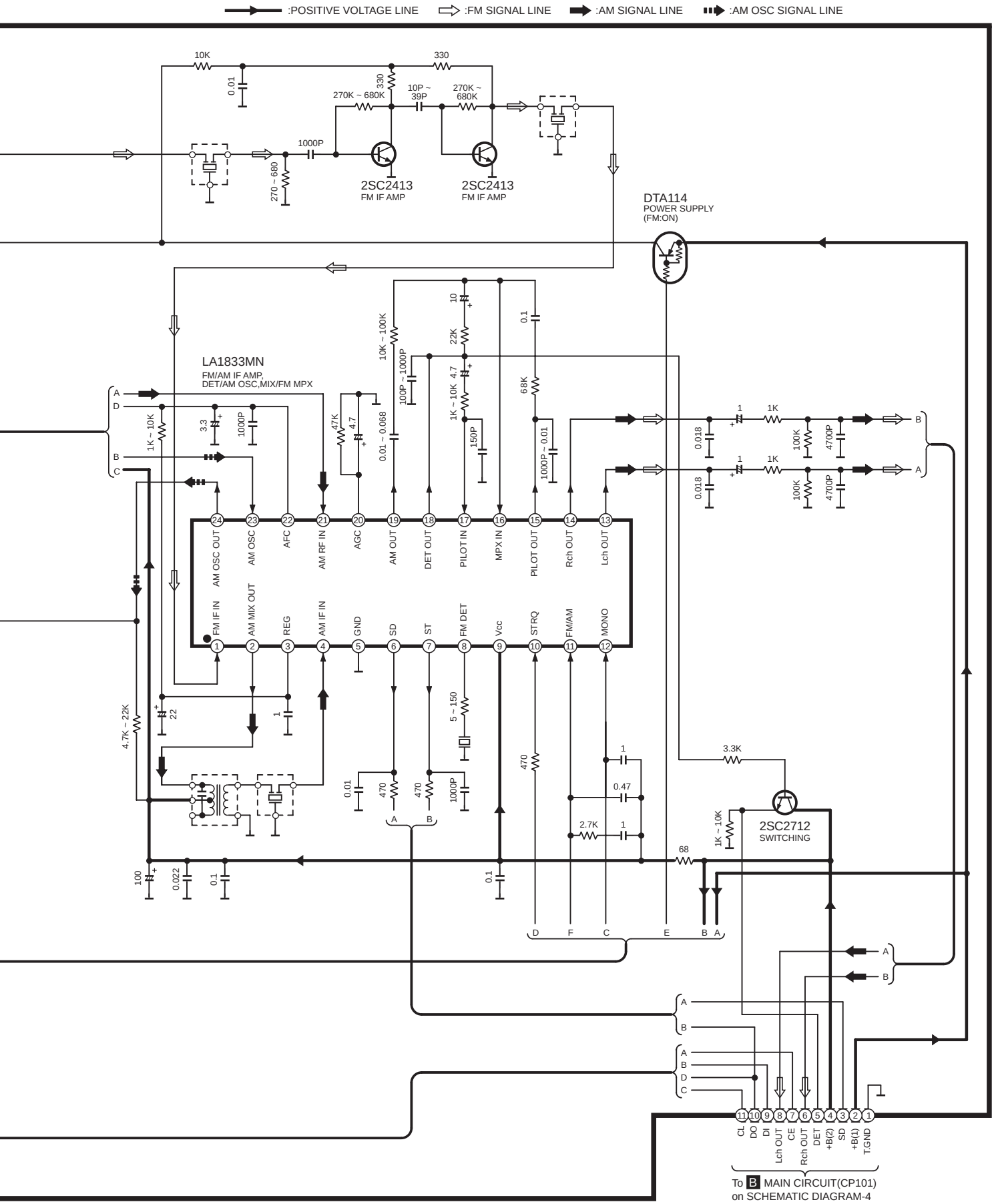
SCHEMATIC DIAGRAM-8

Z120 TUNER UNIT(RAN0005EM)

:FM SIGNAL LINE
:AM SIGNAL LINE
:POSITIVE VOLTAGE LINE
:FM OSC SIGNAL LINE
:AM OSC SIGNAL LINE



SCHEMATIC DIAGRAM-9

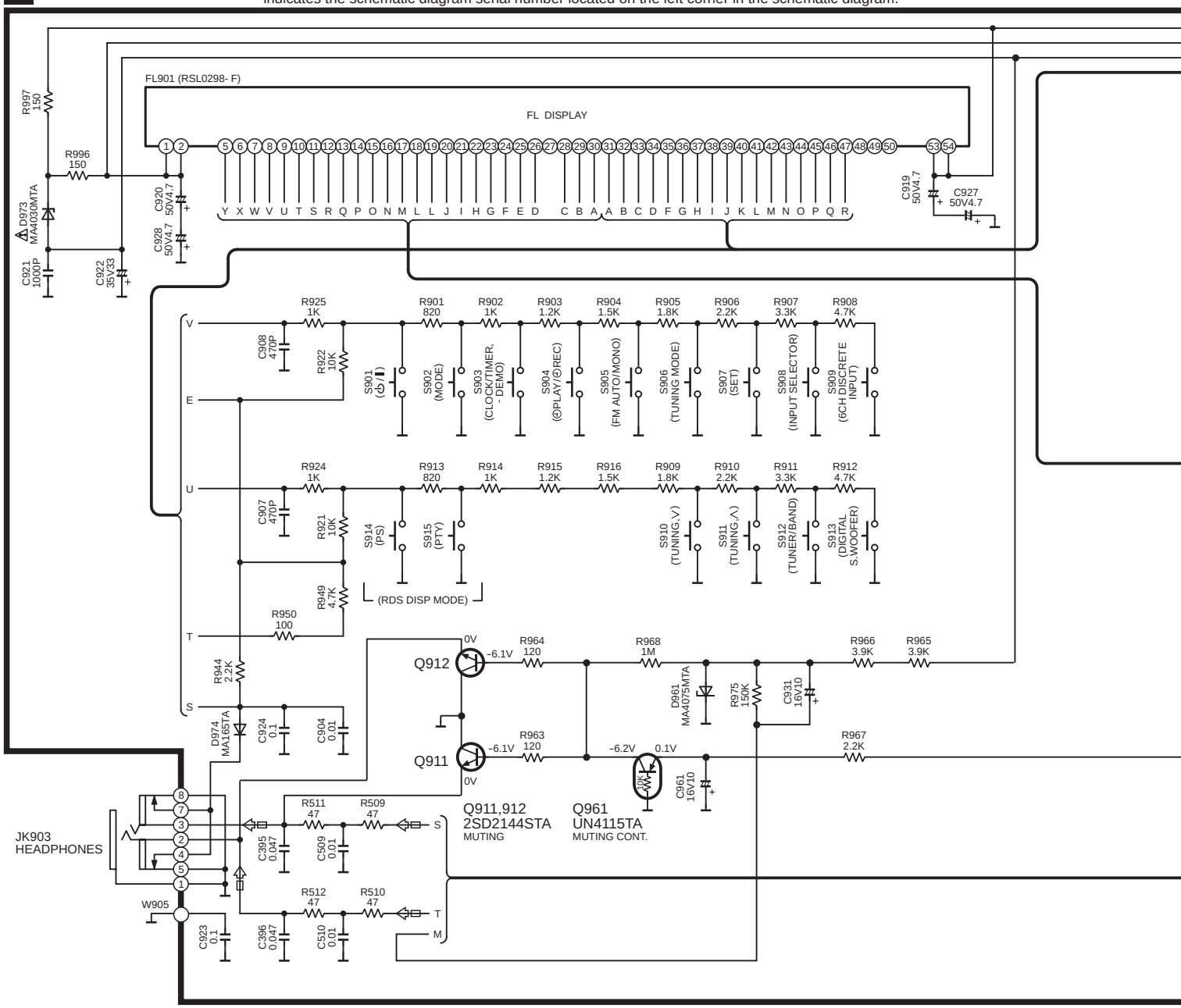


SCHEMATIC DIAGRAM- 1

A OPERATION CIRCUIT

NOTE:
The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

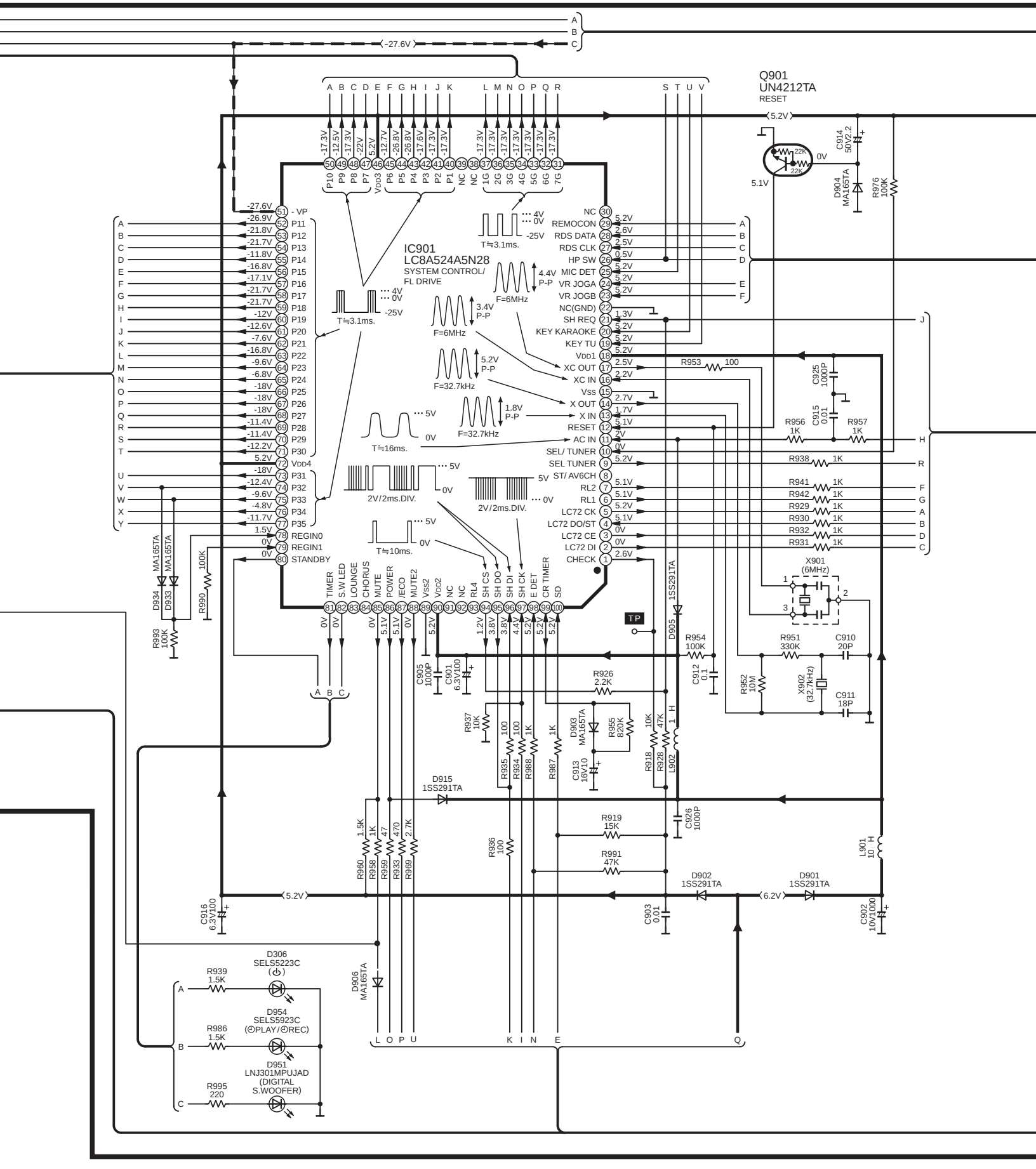
: SOURCE SIGNAL LINE



SCHEMATIC DIAGRAM- 2

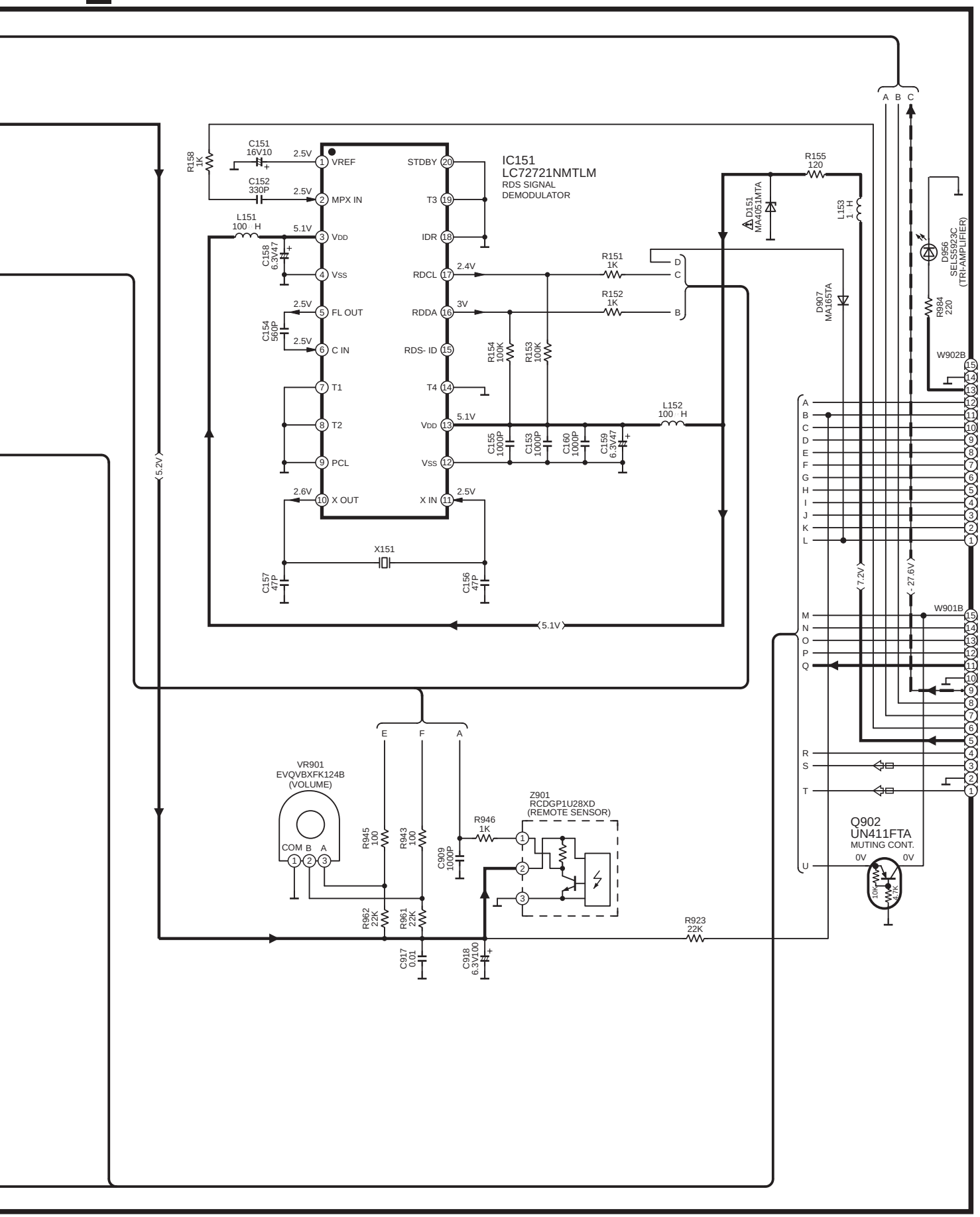
: POSITIVE VOLTAGE LINE

: NEGATIVE VOLTAGE LINE



SCHEMATIC DIAGRAM- 3
A OPERATION CIRCUIT

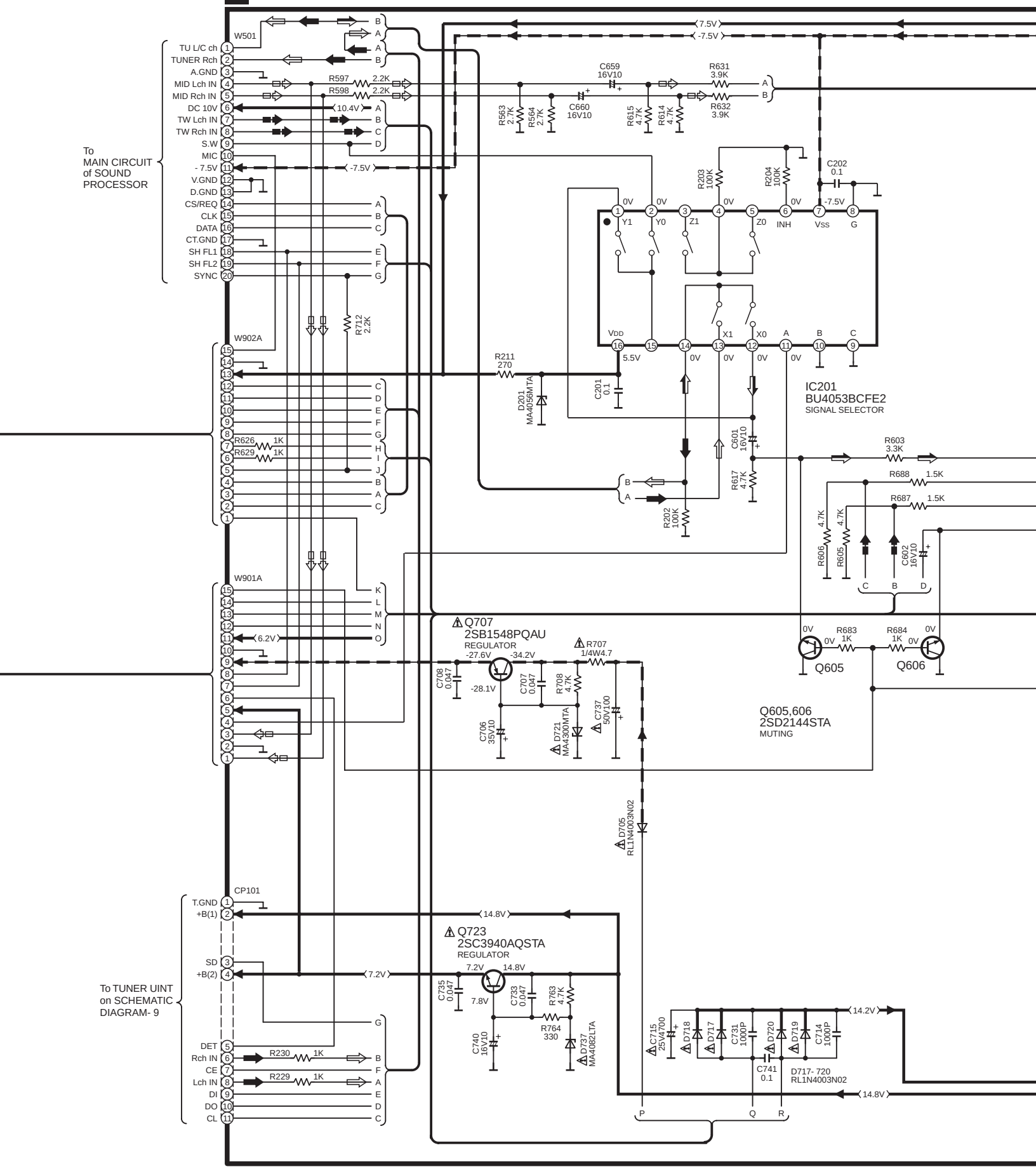
: POSITIVE VOLTAGE LINE
: NEGATIVE VOLTAGE LINE
: SOURCE SIGNAL LINE



SCHEMATIC DIAGRAM- 4

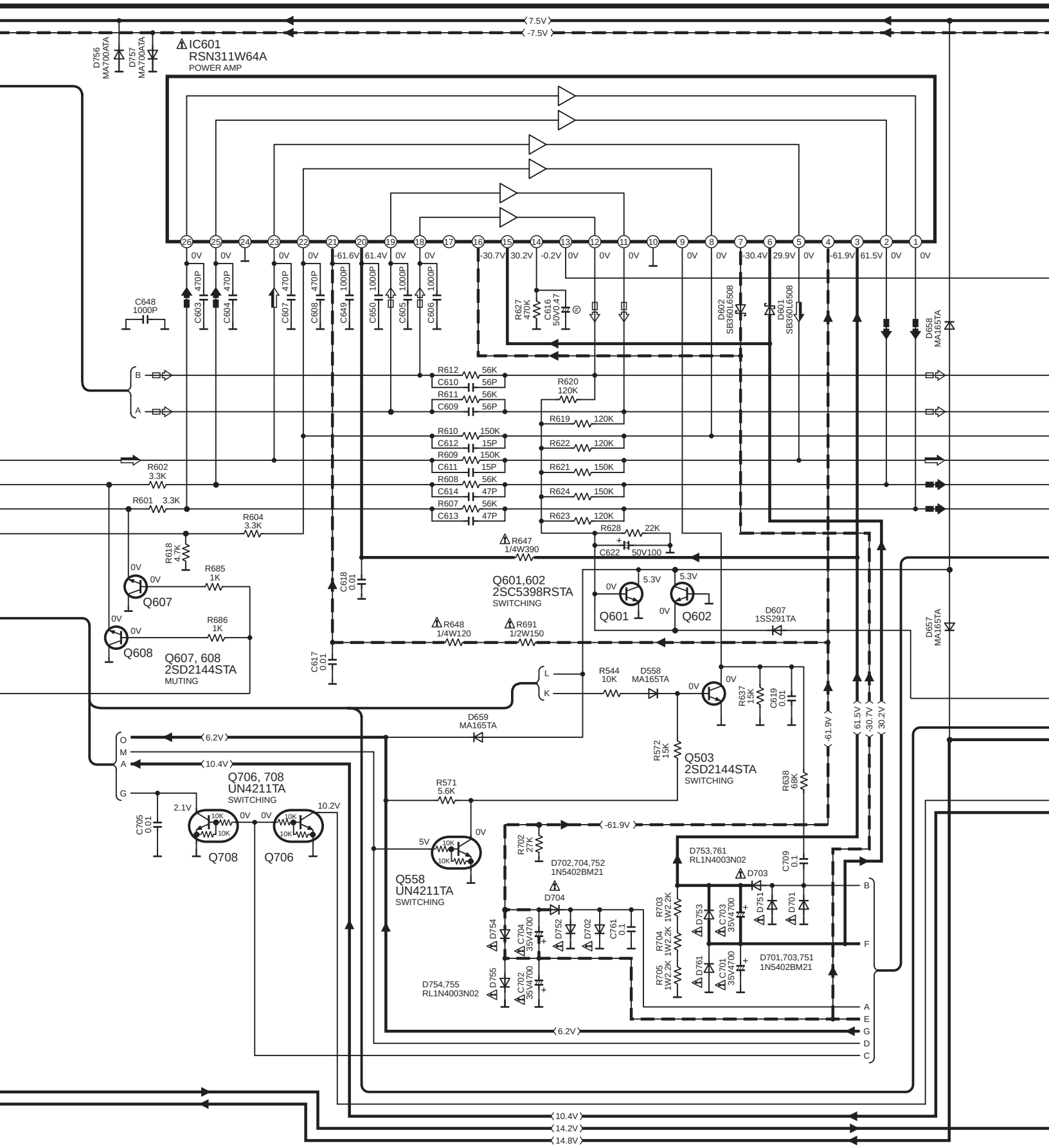
B MAIN CIRCUIT

: POSITIVE VOLTAGE LINE : NEGATIVE VOLTAGE LINE : FM SIGNAL LINE : AM SIGNAL LINE : SURROUND SP.DRIVE SIGNAL LINE : CENTER SP.DRIVE SIGNAL LINE : SOURCE SIGNAL LINE



SCHEMATIC DIAGRAM- 5

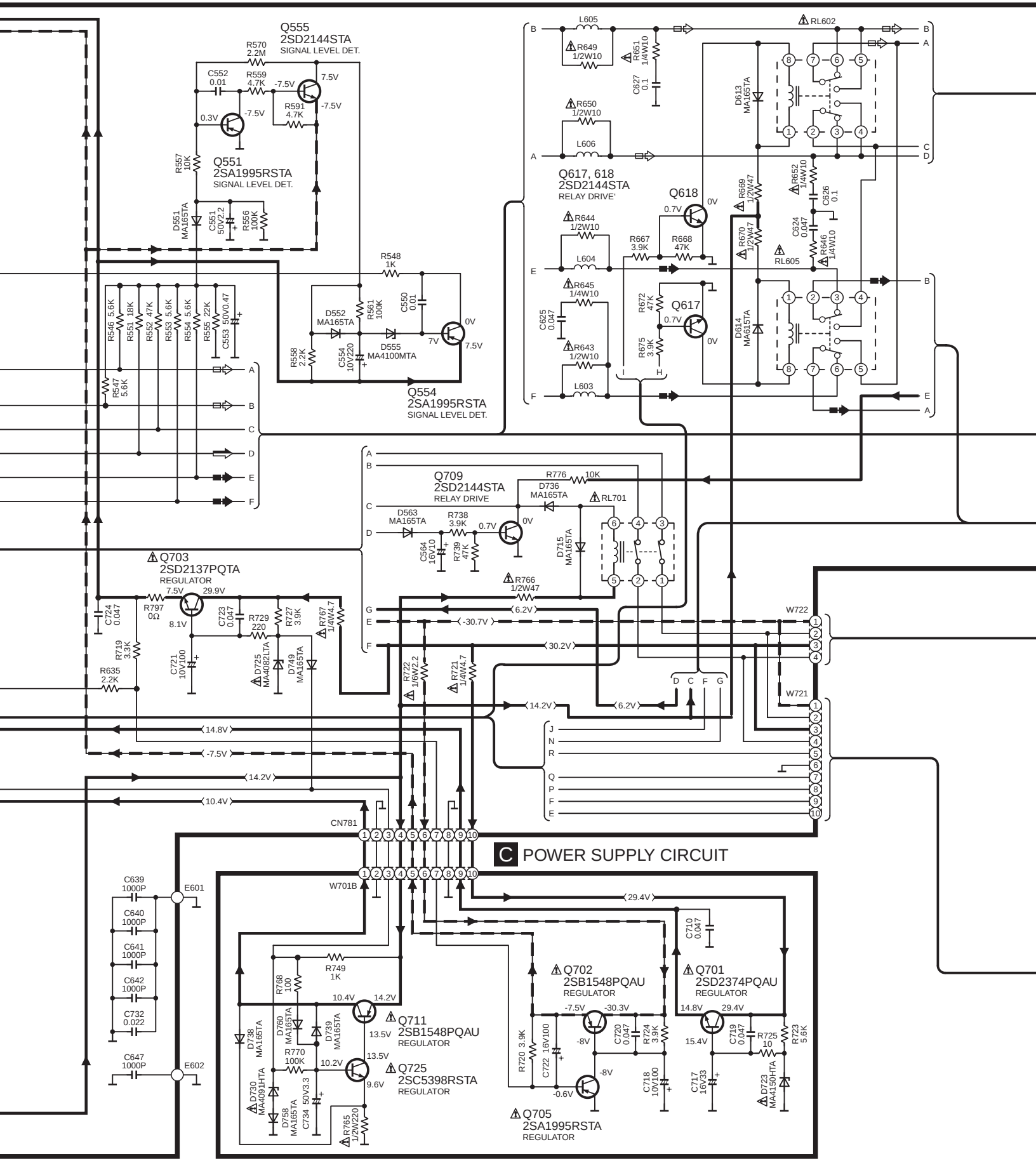
: POSITIVE VOLTAGE LINE
: NEGATIVE VOLTAGE LINE
: SURROUND SP.DRIVE SIGNAL LINE
: CENTER SP.DRIVE SIGNAL LINE
: SOURCE SIGNAL LINE



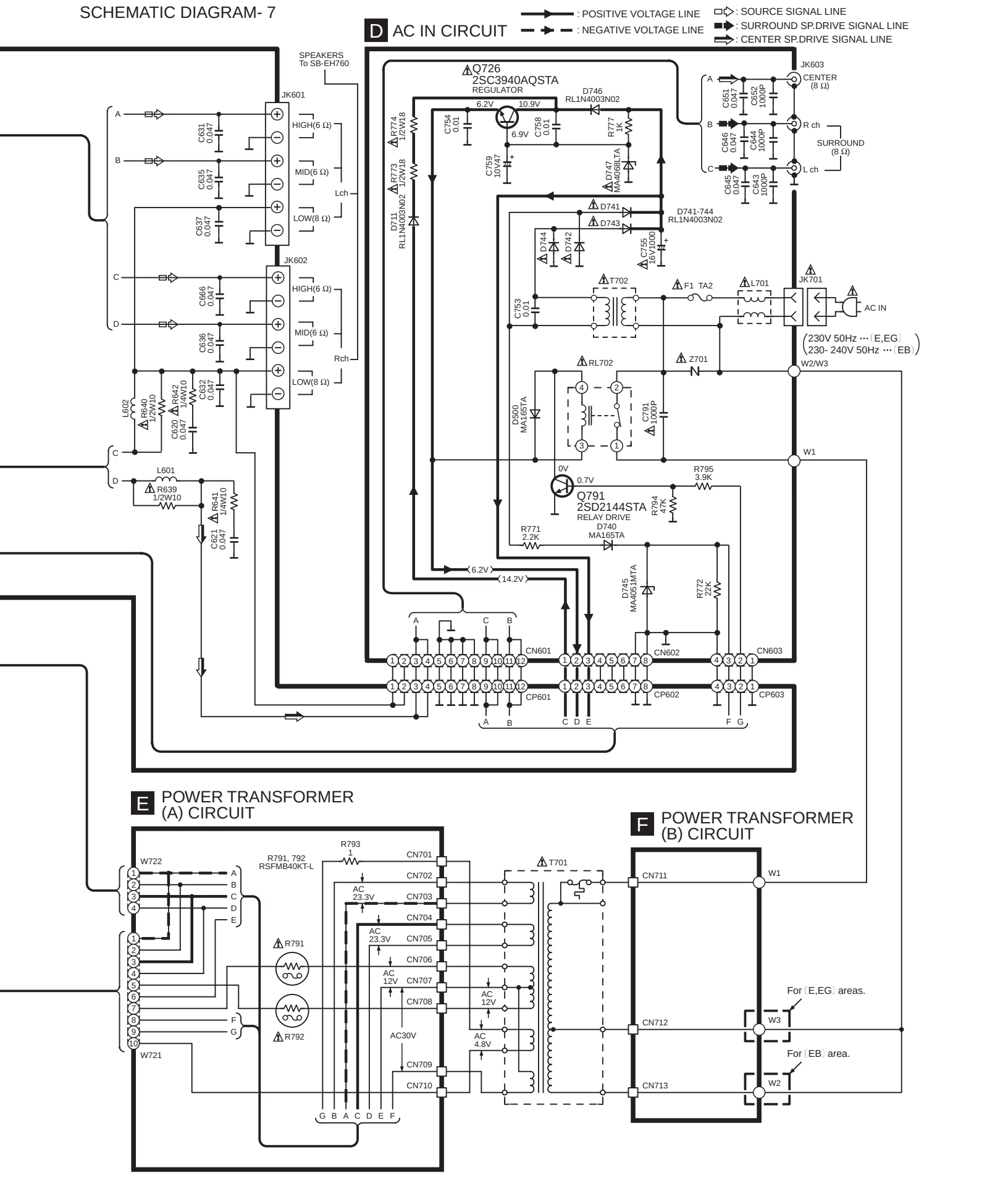
SCHEMATIC DIAGRAM-6

B MAIN CIRCUIT

: POSITIVE VOLTAGE LINE
: NEGATIVE VOLTAGE LINE
: SURROUND SP.DRIVE SIGNAL LINE
: CENTER SP.DRIVE SIGNAL LINE
: SOURCE SIGNAL LINE



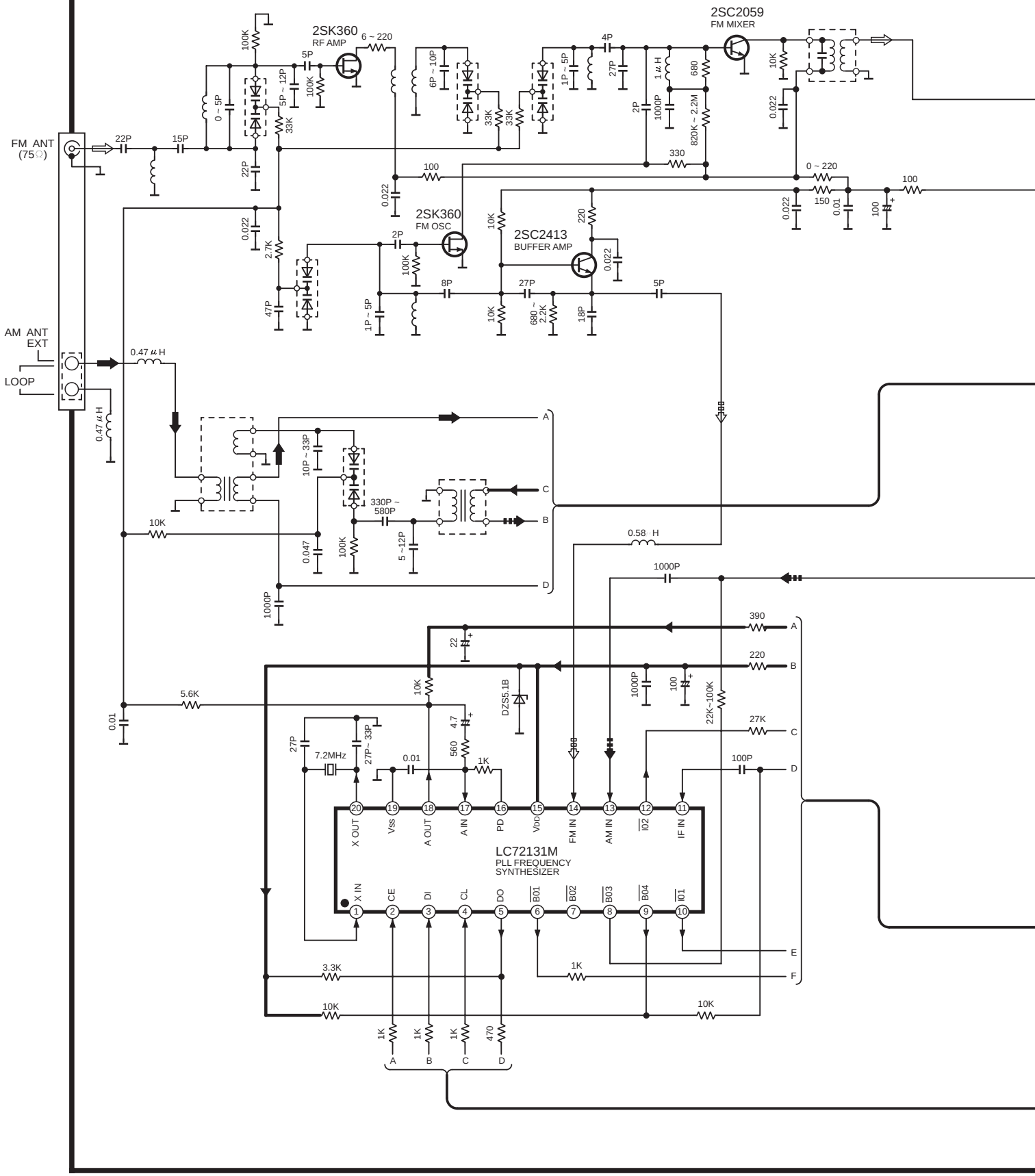
SCHEMATIC DIAGRAM- 7



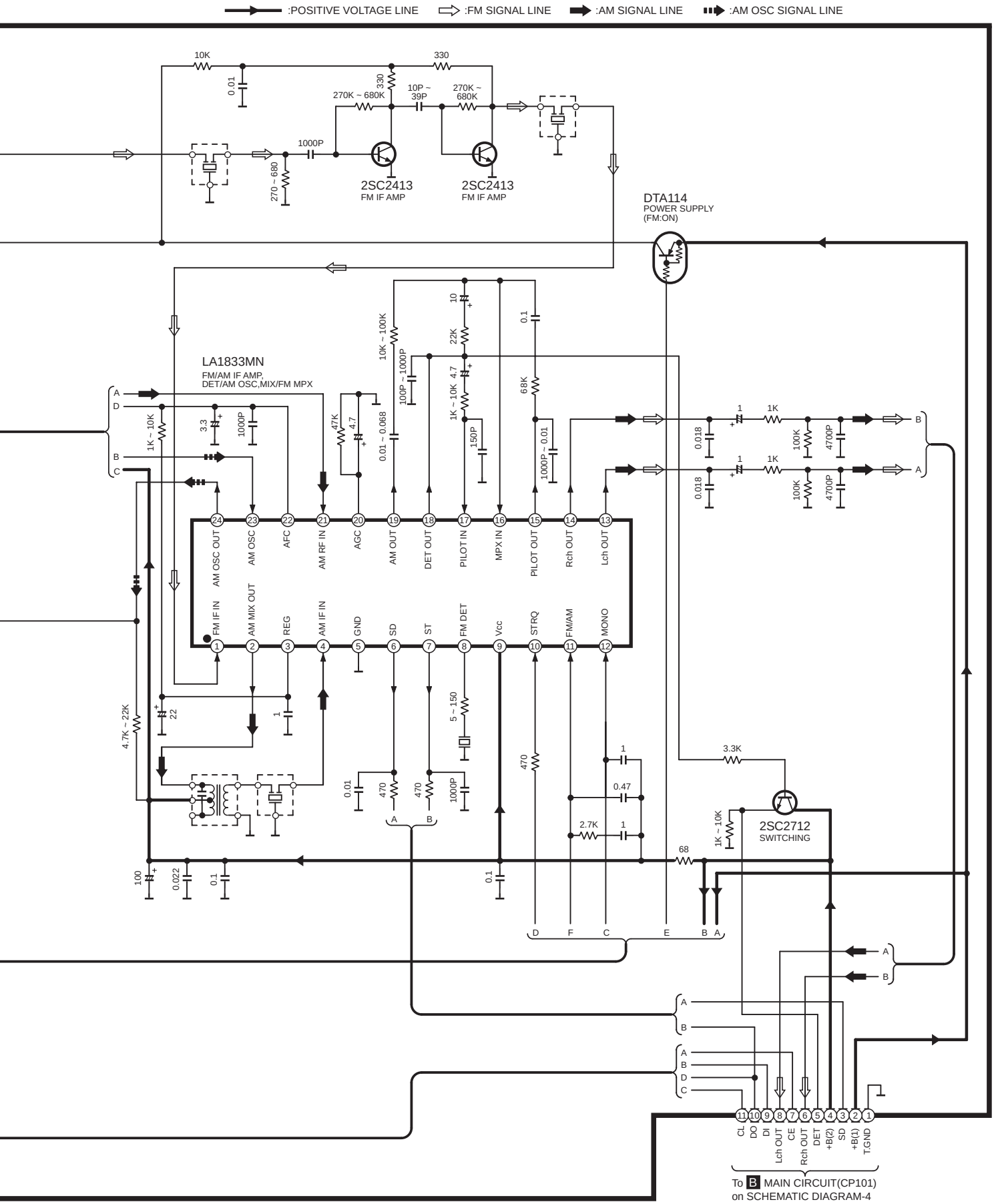
SCHEMATIC DIAGRAM-8

Z120 TUNER UNIT(RAN0005EM)

:FM SIGNAL LINE
:AM SIGNAL LINE
:POSITIVE VOLTAGE LINE
:FM OSC SIGNAL LINE
:AM OSC SIGNAL LINE



SCHEMATIC DIAGRAM-9



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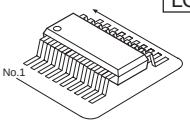
LC72721NMTLM	20PIN



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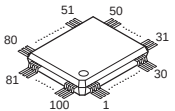

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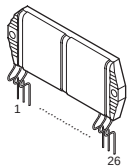

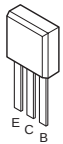

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UN4115TA
UN4211TA
UN4212TA

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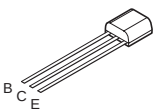
2SC5398RSTA



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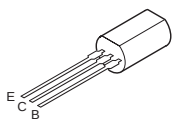

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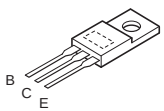

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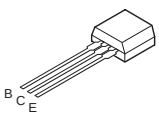
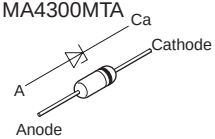


MA4091HTA
MA4100MTA
MA4150HTA
MA4300MTA



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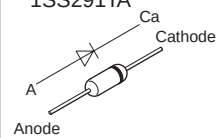

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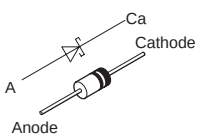

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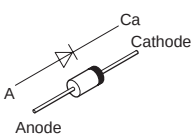

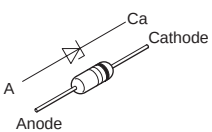

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MA4075MTA
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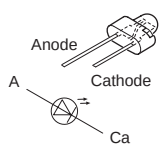

SELS5223C
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